



THE BILLINGS & SPENCER CO.

HARTFORD, CONN. U.S.A.

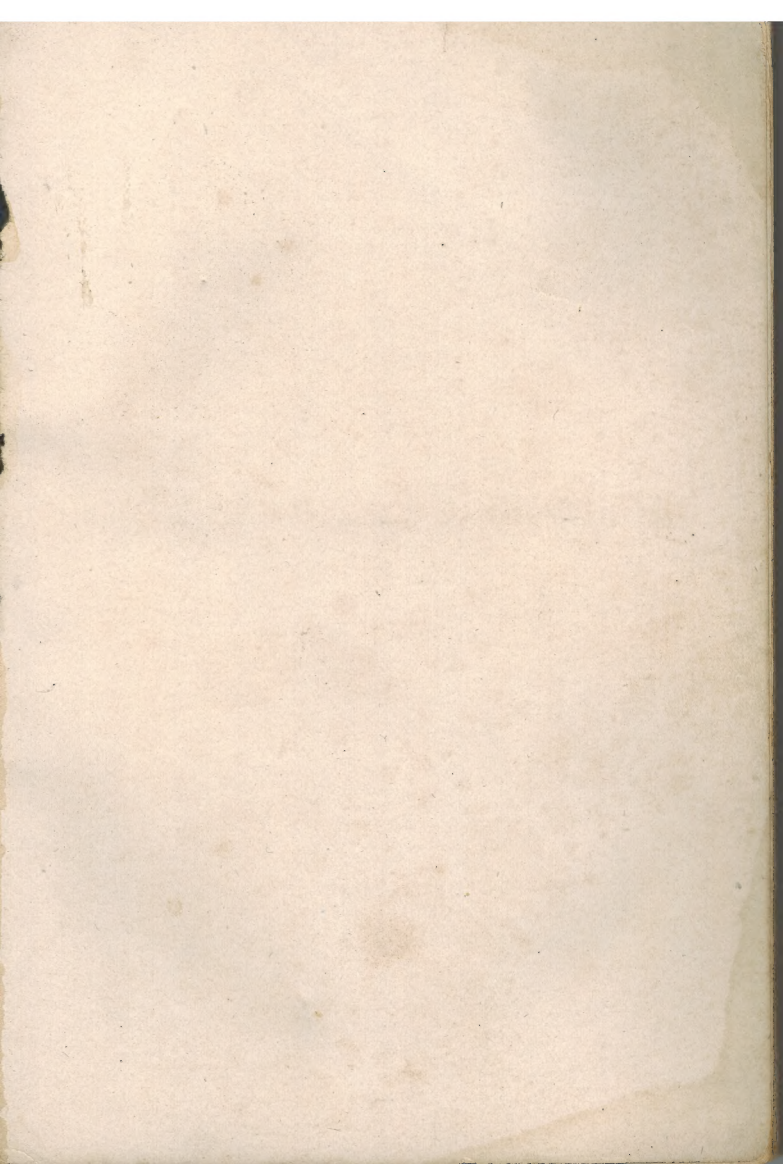
33RD EDITION

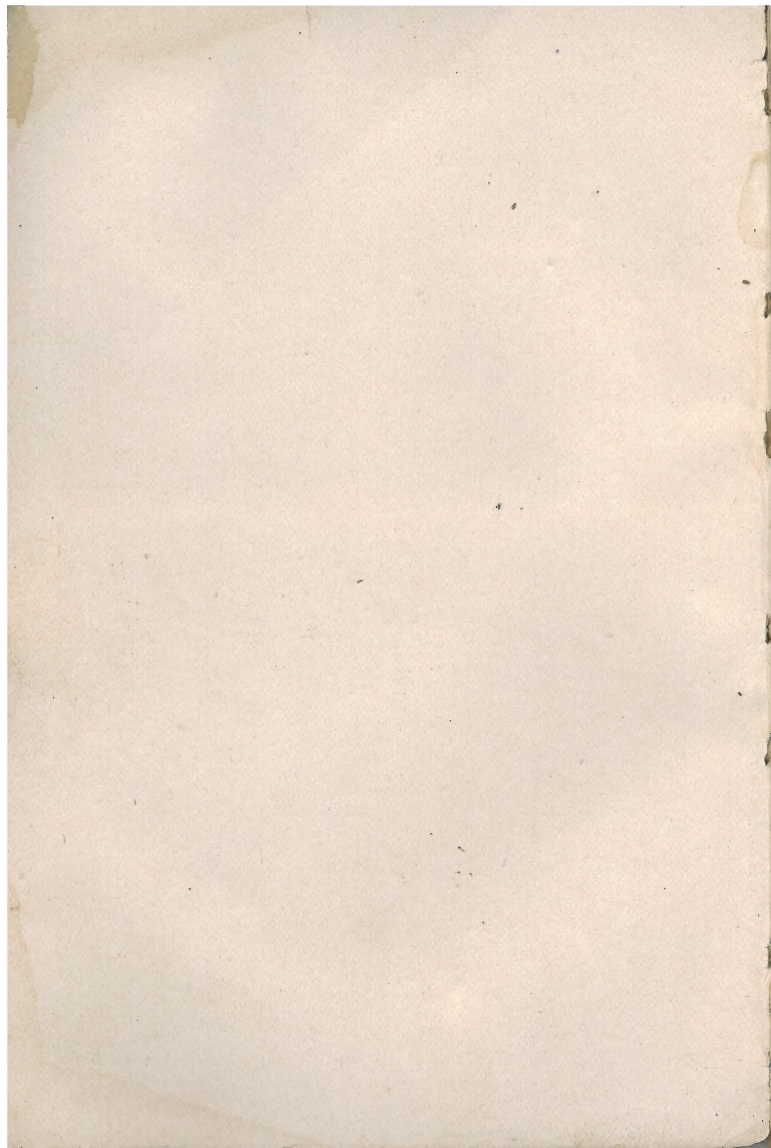


THE BILLINGS & SPENCER CO.

HARTFORD, CONN. U.S.A.

1882 EDITION





MACHINISTS TOOLS AND FORGINGS

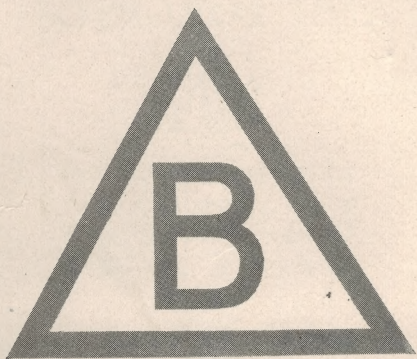


Trade Mark

DROP FORGINGS OF
EVERY DESCRIPTION
IN STEEL, IRON, COP-
PER AND BRONZE

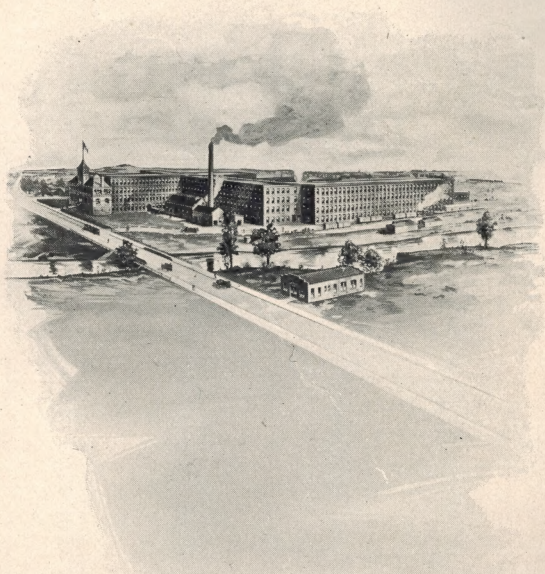
33RD
EDITION

THE BILLINGS & SPENCER COMPANY
HARTFORD, CONN., U. S. A.



Trade Mark

THE MARK OF QUALITY

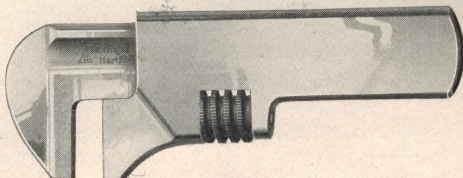


OFFICE AND
WORKS OF THE
BILLINGS & SPENCER
COMPANY, HART-
FORD, CONN, U. S. A

BILLINGS' IMPROVED PATENT ADJUSTABLE POCKET WRENCHES

Model 97

Patented September 29, 1896.



PRICE LIST MODEL 97

Length Closed.	Weight	Opens	Thickness of Jaw	Black per dozen	Nickel per dozen
4 1/4 in.	5 1/2 oz.	1 3/8 in.	1/4 in.	\$6 50	\$8 00

PARTS

Handle	each	0 27	0 35
Bar	"	18	22
Nut and Screw		10	10

Model A



Bars and handles made from selected Open Hearth steel drop forgings. These wrenches are hardened all over.

PRICE LIST MODEL A

Length Closed	Opens	Thickness of Jaw	Weight	Black per dozen	Nickel per dozen
4 1/4 in.	1 in.	3/8 in.	7 1/4 oz.	\$9 00	\$10 00

PARTS

Handle	each	0 40	0 45
Bar	"	35	40
Nut	"	10	10

When ordering specify Number, Model and Finish

INTRODUCTORY

THE present catalog annuls all previous editions and price lists. Attention is called to changes from the old lists; also new tools and lists added.

This book lists a general line of Machinists' Tools. We also publish catalogs describing our Improved Drop-Hammers, Trimming Presses, Hot Saws, and other machinery.

Catalogs sent on request.

List prices and discounts are subject to change without notice.

Discount Sheets sent to the Trade only.

Goods are boxed and delivered F.O.B. Hartford

All goods ordered sent by mail will be at purchasers' risk.

Estimates on special tools and forgings furnished on receipt of drawings and specifications.

Electros of any of our tools as herein illustrated will be furnished to our customers.

Cable address "BILLINGS, HARTFORD."

Codes: Lieber's, A. B. C. 5th Edition, Directory, Western Union, A I, Marconi's.

**BILLINGS' IMPROVED PATENT
ADJUSTABLE WRENCHES**

Model B



Bars and handles made from selected Open Hearth steel drop forgings, hardened all over.

PRICE LIST MODEL B

Length Closed	Opens	Thickness of Jaw	Weight	Black per dozen	Nickel per dozen
5 in.	1 in.	$\frac{3}{16}$ in.	7 $\frac{1}{2}$ oz.	\$9 00	\$10 00

PARTS

Handle	each	0 40	0 45
Bar	"	35	40
Nut	"	10	10

Model C



Bars and handles made from selected Open Hearth steel drop forgings, hardened all over.

PRICE LIST MODEL C

Length Closed	Opens	Thickness of Jaw	Weight	Black per dozen	Nickel per dozen
5 in.	1 in.	$\frac{3}{16}$ in.	7 oz.	\$10 00	\$11 00

PARTS

Handle	each	0 40	0 45
Bar	"	35	40
Nut	"	10	10

When ordering specify Number, Model and Finish

BILLINGS' IMPROVED PATENT ADJUSTABLE WRENCHES

Model D



Bars and handles made from selected Open Hearth steel drop forgings, hardened all over.

PRICE LIST MODEL D

Length Closed	Opens	Thickness of Jaw	Weight	Black per dozen	Nickel per dozen
6 in.	1 1/4 in.	1/2 in.	11 1/4 oz.	\$10 00	\$12 00

PARTS

Handle	each	0 40	0 50
Bar	"	35	40
Nut	"	10	10

Model E



Bars and handles made from selected Open Hearth steel drop forgings, hardened all over.

PRICE LIST MODEL E

Without Pipe Attachment

Length Closed	Opens	Thickness of Jaw	Weight	Black per dozen	Nickel per dozen
7 in.	1 3/4 in.	5/8 in.	19 oz.	\$12 00	\$15 00

PARTS

Handle	each	Black \$0 50	Nickel \$0 65
Bar	"	40	50
Nut	"	10	10

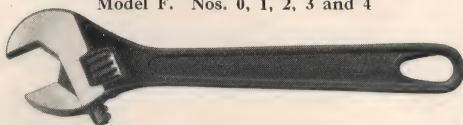
Price of Pipe Wrench Attachment, for Model E, per dozen, \$4.20

When ordering specify Number, Model and Finish



THE BILLINGS & SPENCER CO., HARTFORD, CONN

THE B. & S. ADJUSTABLE ENGINEERS' WRENCH.
Model F. Nos. 0, 1, 2, 3 and 4



Drop-forged steel throughout, specially heat treated and finished in black with polished heads.

PRICE LIST MODEL F

No.	Size	Capacity	Weight	Price, per Doz.	No.
0	4 in.	$\frac{1}{2}$ in.	1 $\frac{3}{4}$ oz.	\$ 8 00	0
1	6 in.	$\frac{3}{8}$ in.	4 $\frac{1}{2}$ oz.	9 00	1
2	8 in.	$\frac{1}{2}$ in.	9 $\frac{1}{2}$ oz.	11 00	2
3	10 in.	1 $\frac{1}{8}$ in.	1 lb.	13 50	3
4	12 in.	1 $\frac{1}{4}$ in.	1 lb. 14 oz.	18 00	4

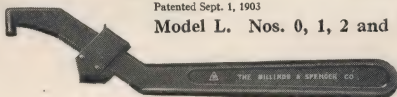
PARTS—EACH

No.	Size	Handle	Jaw	Nurl	Screw	No.
0	4 in.	\$0 38	\$0 24	\$0 04	\$0 03	0
1	6 in.	41	27	05	04	1
2	8 in.	55	30	05	04	2
3	10 in.	68	34	08	05	3
4	12 in.	90	48	08	05	4

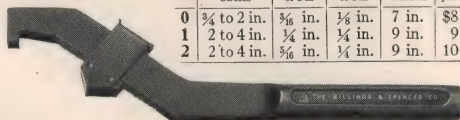
THE B. & S. ADJUSTABLE STANNER WRENCH

Patented Sept. 1, 1903

Model L. Nos. 0, 1, 2 and 3



Drop-forged of Open Hearth steel and hardened.



No.	Takes Circles	Diameter of Pin	Length of Pin	Length of Wrench	Price per Doz.	No.
0	$\frac{3}{4}$ to 2 in.	$\frac{3}{8}$ in.	$\frac{1}{4}$ in.	7 in.	\$8 00	0
1	2 to 4 in.	$\frac{1}{4}$ in.	$\frac{1}{4}$ in.	9 in.	9 00	1
2	2 to 4 in.	$\frac{3}{8}$ in.	$\frac{1}{4}$ in.	9 in.	10 00	2

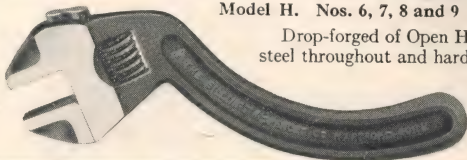
No.	Takes Circles	Diameter of Pin	Length of Pin	Length of Wrench	Price, per Doz.	No.
3	2 in. to 4 $\frac{3}{4}$ in.	$\frac{1}{4}$ in. by $\frac{3}{8}$ in.	$\frac{1}{4}$ in.	10 $\frac{1}{8}$ in.	\$15 00	3

When ordering specify Number, Model and Finish

THE B. & S. ADJUSTABLE "S" NUT WRENCH

Model H. Nos. 6, 7, 8 and 9

Drop-forged of Open Hearth steel throughout and hardened.



PRICE LIST MODEL H

No.	Size	Thickness of Jaw	Depth of Jaw	Weight	Price, per Doz.	No.
6	6 in.	$\frac{1}{2}$ in.	$\frac{3}{8}$ in.	8 oz.	\$10 00	6
7	8 in.	$\frac{1}{2}$ in.	$1\frac{1}{8}$ in.	1 lb. 1 oz.	12 00	7
8	10 in.	$\frac{5}{8}$ in.	$1\frac{1}{4}$ in.	1 lb. 11 oz.	18 00	8
9	12 in.	$\frac{1}{2}$ in.	$1\frac{7}{8}$ in.	2 lb. 5 oz.	24 00	9

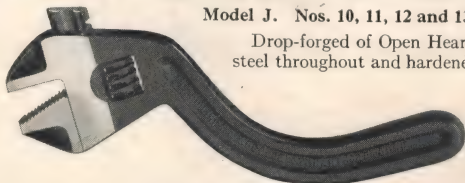
PARTS—EACH

Size	Handle	Jaw	Screw	Nut
6 in.	\$0 46	\$0 29	\$0 04	\$0 05
8 in.	57	35	04	05
10 in.	85	50	06	08
12 in.	1 20	66	08	12

THE B. & S. ADJUSTABLE "S" PIPE WRENCH

Model J. Nos. 10, 11, 12 and 13

Drop-forged of Open Hearth steel throughout and hardened.



PRICE LIST MODEL J

No.	Size	Thickness of Jaw	Depth of Jaw	Weight	Price, per Doz.	No.
10	6 in.	$\frac{1}{2}$ in.	$\frac{3}{8}$ in.	8 oz.	\$10 00	10
11	8 in.	$\frac{1}{2}$ in.	$1\frac{1}{8}$ in.	1 lb. 1 oz.	12 00	11
12	10 in.	$\frac{5}{8}$ in.	$1\frac{1}{4}$ in.	1 lb. 11 oz.	14 00	12
13	12 in.	$\frac{1}{2}$ in.	$1\frac{7}{8}$ in.	2 lb. 5 oz.	16 00	13

PARTS—EACH

Size	Handle	Jaw	Screw	Nut
6 in.	\$0 42	\$0 33	\$0 03	\$0 04
8 in.	48	42	03	04
10 in.	57	53	04	06
12 in.	68	63	04	06

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO. HARTFORD, CONN.

THE B. & S. ADJUSTABLE AUTOMOBILE WRENCHES

Model G. Nos. 1, 2, 3, 4, 5 and 6



Drop-forged from selected Open Hearth steel throughout,
and hardened.

When ordering specify Number, Model and Finish

THE B. & S. ADJUSTABLE AUTOMOBILE WRENCHES

Model G. Nos. 1, 2, 3, 4, 5 and 6

Drop-forged from selected Open Hearth steel throughout, and hardened.

No.	Size	Total Length	Opens	Thickness of Jaw	Depth of Jaw	Weight	No.
1	6 in.	6 ½ in.	1 ¼ in.	¾ in.	1 in.	10 ½ oz.	1
2	8 in.	8 in.	1 ½ in.	¾ in.	1 ¼ in.	16 ½ oz.	2
3	10 in.	10 ¾ in.	2 ¼ in.	¾ in.	1 ½ in.	1 ¾ lb.	3
4	12 in.	12 ¾ in.	2 ¾ in.	¾ in.	1 ½ in.	2 lb.	4
5	14 in.	14 ¾ in.	2 ¾ in.	¾ in.	1 ¾ in.	4 lb.	5
6	18 in.	18 ¾ in.	3 ¾ in.	¾ in.	2 ½ in.	7 lb.	6

PRICE LIST MODEL G WRENCHES WITHOUT PIPE ATTACHMENT

No.	Size, Inches	PRICE PER DOZEN			No.
		Semi-Finished	Full Finished	Nickel Plated	
1	6	\$ 7 00	\$ 8 00	\$10 00	1
2	8	9 00	10 00	12 00	2
3	10	10 00	12 00	16 00	3
4	12	15 00	18 00	24 00	4
5	14	20 00	24 00		5
6	18	28 00	34 00		6

PARTS—EACH

No.	Size In.	HANDLE			SLIDING JAW			NUTS			SCREW			No.
		S. F.	F. F.	N. P.	S. F.	F. F.	N. P.	S. F.	F. F.	N. P.	S. F.	F. F.	N. P.	
1	6	30	35	45	26	28	35	03	03	03	01	01	01	1
2	8	38	42	53	33	37	43	03	03	03	01	01	01	2
3	10	42	53	70	37	43	59	04	04	04	01	01	01	3
4	12	80	95	1 10	45	55	86	04	04	04	01	01	01	4
5	14	1 05	1 20		90	1 08		07	07		02	02		5
6	18	1 30	1 60		1 10	1 30		12	12		02	02		6

PRICE LIST PIPE WRENCH ATTACHMENT

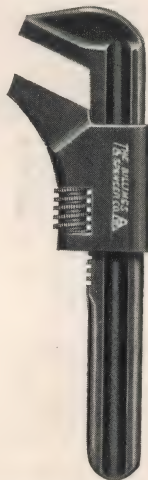
FITS WRENCH		Capacity of Attachment	Price per Dozen	No.
No.	Size, Inches			
2	8	¾ in. Pipe	\$4 20	2
3	10	1 ¼ in. "	4 80	3
4	12	1 ½ in. "	4 80	4



When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. ADJUSTABLE ANGLE WRENCH Model G A



This new Wrench follows the lines of our regular Automobile Wrench. The jaws, however, are placed at an angle of about 25 degrees, insuring greater convenience to the user in reaching for nuts in narrow spaces, etc. The thin jaws and nurl of ample size add to its utility. The Wrench is drop-forged throughout of the best O. H. Steel.

PRICE LIST MODEL G A

No.	Size	Total Length	Opens	Thick-ness of Jaw	Depth of Jaw	Weight	PRICE PER DOZEN			No
							Semi-Finished	Full Finished	Nickel	
1	6 in.	6½ in.	1 ½ in.	⅝ in.	1 in.	10 ½ oz.	\$8 00	\$9 00	\$11 00	1
2	8 in.	8 in.	1 ⅝ in.	⅜ in.	1 ⅞ in.	16 ½ oz.	10 00	11 00	13 00	2
3	10 in.	10 ⅝ in.	1 ¾ in.	⅜ in.	1 ⅝ in.	1 ¼ lbs.	11 00	13 00	17 00	3

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. ADJUSTABLE ALLIGATOR WRENCH

Model G B—Nos. 1, 2 and 3



PRICE LIST MODEL G B

No.	Size Inches	Total Length Inches	Opens Inches	Thickness of Jaw Inches	Depth of Jaw Inches	Weight	PRICE PER DOZEN			No
							Semi- Finished	Full Finished	Nickel	
1	6	6 ½	1 ½	5/16	1	10 ½ oz.	\$9 00	\$10 00	\$12 00	1
2	8	8	1 15/32	3/8	1 1/8	16 ½ oz.	11 00	12 00	14 00	2
3	10	10 15/16	1 27/32	3/8	1 5/8	1 ¾ lbs.	12 00	14 00	18 00	3

When ordering specify Number, Model and Finish

THE B. & S. IMPROVED COMBINATION PLIERS

Model M. Nos. 0, 1, 2, 3 and 4

No. 0, 5 inches

" 1, 6 "

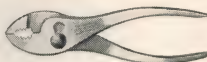
" 2, 8 "

" 3, 10 "

" 4, 14 "



No. 3



Nos. 0, 1, 2



No. 4

Drop-forged of selected Open Hearth steel and hardened.

CAPACITY OF PLIERS

5 in. From $\frac{3}{16}$ in. to $\frac{5}{8}$ in. Pipe

6 in. " $\frac{1}{4}$ in. to $\frac{3}{4}$ in. "

8 in. " $\frac{1}{4}$ in. to $\frac{3}{4}$ in. "

10 in. " $\frac{1}{4}$ in. to 1 in. "

14 in. " $\frac{1}{4}$ in. to $1\frac{1}{4}$ in. "

A powerful wire cutter (patented) is located near the bolt of the plier. By its use a one-eighth inch wire may be cut with ease.

PRICE LIST MODEL M

No.				Black Finish	Nickel Plated
0	5-inch				
	"	Plier Bolts	per dozen		\$10 00
	"	Plier Nuts	each	\$ 0 07	
				" 04	
1	6-inch		per dozen	13 50	15 00
	"	Plier Bolts	each	08	
	"	Plier Nuts	"	05	
2	8-inch		per dozen	16 00	18 00
	"	Plier Bolts	each	08	
	"	Plier Nuts	"	05	
3	10-inch		per dozen	18 00	21 00
	"	Plier Bolts	each	10	
	"	Plier Nuts	"	06	
4	14-inch		per dozen	24 00	30 00
	"	Plier Bolts	each	10	
	"	Plier Nuts	"	06	

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER NEW SLIP BOX-JOINT PLIER

Model CC



The merits of this new combination plier are apparent from the cut shown above. The box-joint is here applied for the first time to pliers of this design, and insures perfect alignment of the jaws and side cutters. The inefficient shear cutters of the ordinary plier are replaced by genuine nippers which will cut any wire within its capacity.

The tool is made from high grade steel forgings; the handles are nurlled and the whole is finished in a first class manner.

PRICE LIST MODEL C C

6-inch slip box-joint combination pliers, per dozen, ~~\$15 00~~ \$24.00

THE HAYDEN PATENT COMBINED WIRE CUTTER AND GAS PLIERS

Model N. Nos. 1, 2 and 3



Handles and jaws drop-forged of Open Hearth steel, and hardened. Wire cutters are interchangeable and made from best tool steel.

PRICE LIST MODEL N

No.			
1	6-inch	per dozen	\$12 00
2	8-inch	" "	15 00
3	10-inch	" "	20 00

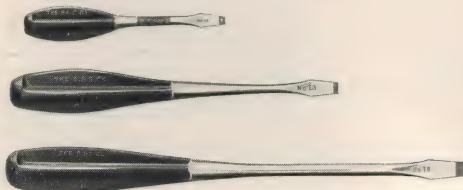
No.		CUTTERS, PER PAIR	
1	6-inch, will cut $\frac{1}{8}$ -inch Wire		\$0 40
2	8-inch, " " $\frac{3}{16}$ -inch "		50
3	10-inch, " " $\frac{1}{4}$ -inch "		60

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. IMPROVED "ALL STEEL" SCREW-DRIVER

Model P. Nos. 12 to 22

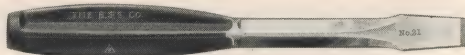


Complete in one piece. Drop-forged steel throughout with tempered blades.

PRICE LIST MODEL P

THE B. & S. "ALL STEEL" SCREW-DRIVERS, WITH ROUND SHANK

No.	Length over-all	Length of Blade	Width of Blade	Weight	Price per Doz.	No.
12	5 in.	2 $\frac{3}{4}$ in.	$\frac{1}{4}$ in.	2 $\frac{1}{2}$ oz.	\$3 00	12
13	8 in.	4 in.	$\frac{1}{4}$ in.	5 oz.	4 50	13
14	9 in.	5 in.	$\frac{1}{4}$ in.	5 $\frac{1}{2}$ oz.	5 00	14
15	10 in.	6 in.	$\frac{1}{4}$ in.	6 oz.	6 00	15
16	11 $\frac{1}{2}$ in.	7 in.	$\frac{5}{16}$ in.	8 oz.	7 00	16
17	12 $\frac{1}{2}$ in.	8 in.	$\frac{5}{16}$ in.	8 $\frac{3}{4}$ oz.	8 00	17
18	14 in.	8 $\frac{1}{2}$ in.	$\frac{3}{8}$ in.	13 $\frac{1}{4}$ oz.	9 00	18
19	16 in.	10 $\frac{1}{2}$ in.	$\frac{3}{8}$ in.	14 $\frac{1}{4}$ oz.	10 00	19
20	18 in.	12 $\frac{1}{2}$ in.	$\frac{3}{8}$ in.	15 oz.	11 00	20



THE B. & S. "ALL STEEL" MACHINISTS' SCREW-DRIVERS, WITH SQUARE SHANK
MODEL P

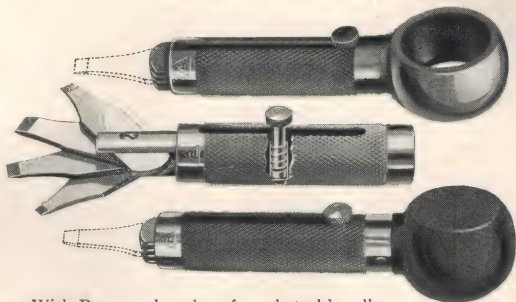
No.	Length over-all	Length of Blade	Width of Blade	Size of Shank	Weight	Price per Doz.	No.
21	9 $\frac{1}{2}$ in.	.5 in.	$\frac{5}{8}$ in.	$\frac{1}{16}$ in.	9 $\frac{1}{2}$ oz.	\$8 00	21
22	10 $\frac{1}{2}$ in.	.5 in.	$\frac{3}{4}$ in.	$\frac{1}{8}$ in.	1 lb.	10 00	22

When ordering specify Number, Model and Finish

MAGAZINE SCREW-DRIVERS

Billings' Patent March 15, 1892; February 4, 1896

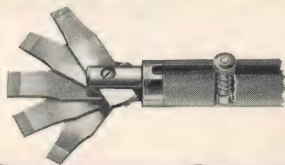
Model Q. Nos. 1 and 2



With Rosewood or drop-forged steel handle.

HIGHLY FINISHED AND FULL NICKELED PRICE LIST MODEL Q. Nos. 1 and 2.

No.	No.	Handle	Length Closed Inches	Weight, Ounces	Width of Blades Inches	Price Per Dozen	Blades Per Set	No.
1	1	Rosewood	3 ⁷ / ₈	3 ¹ / ₂	¹ / ₈ , ¹ / ₁₆ , ¹ / ₄ , ¹ / ₈	\$15 00	\$0 60	1
2	2	Steel	3 ⁷ / ₈	4	¹ / ₈ , ¹ / ₁₆ , ¹ / ₄ , ¹ / ₈	18 00	60	2



PRICE LIST MODEL Q. No. 3

No.	Handle	Length Closed Inches	Weight Ounces	Width of Blades Inches	Price Per Dozen	Blades Per Set	No.
3	Maple	8 ¹ / ₂	10 ¹ / ₂	⁵ / ₁₆ , ³ / ₈ , ⁷ / ₁₆ , ¹ / ₂ , ⁹ / ₁₆	\$24 00	\$1 00	3

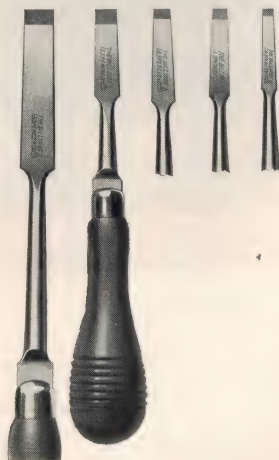
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

GUN AND MACHINE MAKERS' SCREW-DRIVERS

Drop-forged from Best Tool Steel

Model R. Nos. 1, 2, 3, 4 and 5



Drop-forged from the best tool steel, spring tempered, and fitted with hard wood handles.

PRICE LIST MODEL R

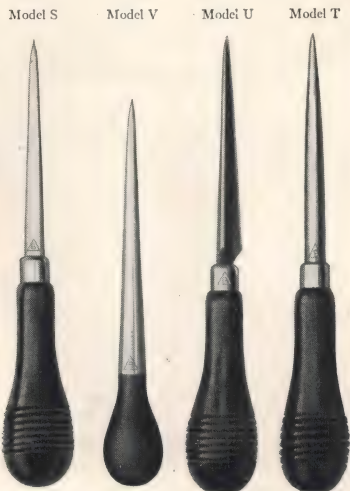
No.	Width and Length of Blade	Total Length	Per dozen	No.
1	$\frac{3}{16}$ x 3 in.	7 $\frac{1}{2}$ in.	\$4 00	1
2	$\frac{1}{4}$ x 3 in.	7 $\frac{1}{2}$ in.	4 00	2
3	$\frac{3}{16}$ x 3 in.	7 $\frac{1}{2}$ in.	4 50	3
4	$\frac{3}{8}$ x 3 in.	7 $\frac{1}{2}$ in.	4 50	4
5	$\frac{1}{2}$ x 6 in.	12 in.	6 00	5

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. BELT AWLS AND REAMERS

Models S, T, U and V



Drop-forged from the best steel for the purpose, finished in first-class manner and spring tempered.

PRICE LIST MODELS S, T, U AND V

Model	Length Over-all	Price Per Doz.
S Oval Awl	8 in.	\$3 50
T Round Awl	8 in.	3 60
U Reamer	8 in.	3 60
V Solid Steel Awl	7 in.	3 60

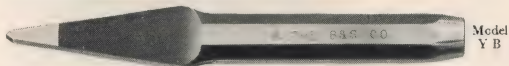
When ordering specify Number, Model and Finish

COLD AND CAPE CHISELS

Models Y A and Y B



Model
Y A



Model
Y B

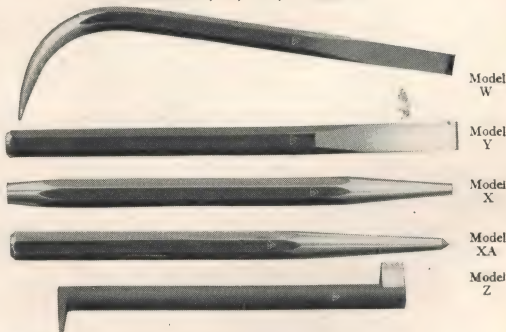
Made from selected steel, and tempered.

PRICE LIST MODELS Y A and Y B COLD OR CAPE CHISELS

Size	Per doz.	Size	Per doz.
1/4 in.	\$1 50	5/8 in.	\$3 00
3/8 in.	1 50	3/4 in.	4 50
1/2 in.	1 80	7/8 in.	5 50
	2 50	1 in.	6 50

COTTER PIN TOOL, KIT CHISEL, PUNCH, CENTER PUNCH AND OFF-SET SCREW-DRIVER

Models W, X, XA, Y and Z



Model
W

Model
Y

Model
X

Model
XA

Model
Z

Made from tempered tool steel.

PRICE LIST MODELS W, X, X A, Y and Z

	Each
3/8-inch Catter Pin Tool, Model W	\$0 25
3/8-inch Kit Chisel, Model Y	20
3/8-inch Punch, Model X	20
3/8-inch Center Punch, Model X A	20
3/8-inch Off-set Screw-driver, Model Z	20

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

B. & S. DROP-FORGED MACHINISTS' HAMMERS

ROUND PATTERN

Model A D. Nos. 1 to 18



These Hammers are drop-forged from the best grade of tool steel, carefully tempered and hung with selected, clear, white, hickory handles. They are superior tools in every respect.

PRICE LIST MODEL A D

BALL PEIN			STRAIGHT PEIN			CROSS PEIN		
No.	Weight less Handle	Price per Dozen	No.	Weight less Handle	Price per Dozen	No.	Weight less Handle	Price per Dozen
1	$\frac{1}{4}$ lb.	\$8 40	7	$\frac{1}{4}$ lb.	\$8 40	13	$\frac{1}{4}$ lb.	\$8 40
2	$\frac{1}{2}$ lb.	10 20	8	$\frac{1}{2}$ lb.	10 20	14	$\frac{1}{2}$ lb.	10 20
3	$\frac{3}{4}$ lb.	12 00	9	$\frac{3}{4}$ lb.	12 00	15	$\frac{3}{4}$ lb.	12 00
4	1 lb.	14 40	10	1 lb.	14 40	16	1 lb.	14 40
5	$1\frac{1}{4}$ lb.	16 80	11	$1\frac{1}{4}$ lb.	16 80	17	$1\frac{1}{4}$ lb.	16 80
6	$1\frac{1}{2}$ lb.	19 20	12	$1\frac{1}{2}$ lb.	19 20	18	$1\frac{1}{2}$ lb.	19 20

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.



GENUINE PACKER RATCHET

Model A E, Nos. 1 to 5

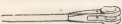
Made from Open Hearth steel drop forgings.
Working parts hardened.

For Flat Drills and Square Shank Drills Only

PRICE LIST MODEL A E

No.	Length of Handle Inches	Size of Drill Socket	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 ½	Morse No. 1 Square Taper	7 ¼	2 ¼	5	\$10 50	1
1B	10 ½	" " 2 " "	7 ¼	2 ¼	5	10 50	1B
2	13	" " 1 " "	8	2 ½	7	13 50	2
2B	13	" " 2 " "	8	2 ½	7	13 50	2B
3	16	" " 1 " "	9 ½	3	9 ¾	16 00	3
3B	16	" " 2 " "	9 ½	3	9 ¾	16 00	3B
4	18	" " 2 " "	9 ¾	3 ½	12	19 00	4
5	20	" " 2 " "	10 ¾	4	15 ¾	23 00	5

PARTS—EACH

	Nos. 1-1B	Nos. 2-2B	Nos. 3-3B	No. 4	No. 5
 Handle	\$3 25	\$4 20	\$5 00	\$5 90	\$7 15
 Socket	2 75	3 50	4 20	4 95	6 00
 Sleeve	1 30	1 60	1 90	2 30	2 75
 Screw	50	70	80	95	1 15
 Screw Point	30	40	50	60	70
 Gear	60	75	90	1 05	1 25
 Pawl	50	70	80	95	1 15
 Stud	25	35	40	50	60
 Collar and Screw	50	70	80	95	1 15
 Socket Nut	65	80	1 00	1 15	1 40

When ordering specify Number, Model and Finish

GENUINE PACKER TAPER SOCKET RATCHET

Model A G, Nos. 1 to 4

With Round Taper Hole in Socket

For Morse Taper Shank Drills or Morse
Taper Sockets and Flat Drill Sockets. Made in



four sizes, numbers same as the regular Packer Ratchet and finished in the same thorough manner. All working parts are hardened.

PRICE LIST MODEL A G

No.	Length of Handle Inches	Size of Drill Socket	For Morse Taper Drills Inches	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 1/2	No. 1 Morse	1/16 to 9/16	6 7/8	1 3/4	5	\$13 00	1
2	13	" 2 "	3/64 to 7/32	7 1/8	2	6 1/2	16 00	2
3	16	" 3 "	5/64 to 1 1/4	9 1/4	2 3/4	9	20 00	3
4	18	" 4 "	1 1/64 to 2	10 1/4	2 3/4	14	25 00	4

PARTS—EACH

	No. 1	No. 2	No. 3	No. 4
 Handle	\$4 50	\$5 75	\$6 90	\$8 75
 Socket	3 25	4 00	5 00	6 25
 Sleeve	1 40	1 70	2 10	2 70
 Screw	60	95	1 20	1 50
 Screw Point . .	35	40	45	55
 Gear	70	80	1 00	1 25
 Pawl	65	80	1 00	1 25
 Stud	25	30	45	50
 Collar and Screw	65	80	1 00	1 25
 Socket Nut . . .	65	75	90	1 00

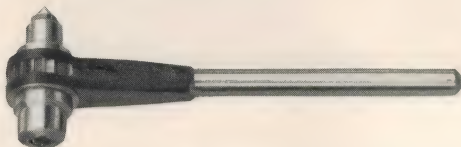
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

GENUINE PACKER BOILER RATCHET

Model A F, Nos. 1, 1B, 2 and 2B

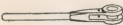
For Flat Drills and Square Shank Drills Only



PRICE LIST MODEL A F

No.	Length of Handle Inches	Size of Drill Socket	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 ½	Morse No. 1 Square Taper	4 ⅞	1 ¼	3 ¾	\$9 00	1
1B	10 ½	" " 2 " "	4 ⅞	1 ¼	3 ¾	9 00	1B
2	13	" " 1 " "	5	1 ¾	5 ¼	10 50	2
2B	13	" " 2 " "	5	1 ¾	5 ¼	10 50	2B

PARTS—EACH

	Nos. 1-1B	Nos. 2-2B
 Handle	\$3 25	\$4 20
 Socket	2 20	2 50
 Screw and Point	1 20	1 40
 Gear	60	65
 Pawl	50	65
 Stud	25	30
 Collar and Screw	50	60
 Socket Nut	65	70

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.



GENUINE "RAILROAD" PACKER RATCHET

Model A J, Nos. 1 to 5

Made in five sizes, with hexagon sleeve and square socket.

PRICE LIST MODEL A J

No.	Length of Handle Inches	Size of Drill Socket	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 1/2	Morse No. 1 Square Taper	7 1/8	2 1/4	5	\$10 50	1
2	13	" " 1 " "	8	2 1/2	7	13 50	2
3	16	" " 1 " "	9 1/2	3	10	16 00	3
4	17	" " 2 " "	10 1/4	3 3/8	12 1/2	19 00	4
5	20	" " 2 " "	10 3/4	3 3/4	15	23 00	5

PARTS—EACH

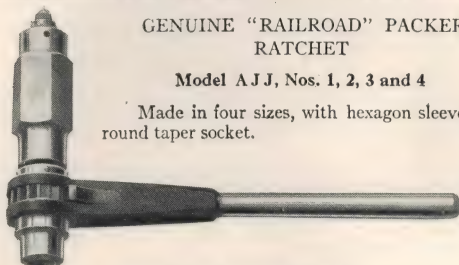
	No. 1	No. 2	No. 3	No. 4	No. 5
 Handle	\$3 25	\$4 20	\$5 00	\$5 90	\$7 15
 Socket	2 75	3 50	4 20	4 95	6 00
 Sleeve	1 30	1 60	1 90	2 30	2 75
 Screw	50	70	80	95	1 15
 Screw Point	30	40	50	60	70
 Collar and Screw	50	70	80	95	1 15
 Gear	60	75	90	1 05	1 25
 Stud	25	35	40	50	60
 Pawl	50	70	80	95	1 15
 Socket Nut	65	80	1 00	1 15	1 40

When ordering specify Number, Model and Finish

GENUINE "RAILROAD" PACKER RATCHET

Model A J J, Nos. 1, 2, 3 and 4

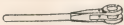
Made in four sizes, with hexagon sleeve and round taper socket.



PRICE LIST MODEL A J J

No.	Length of Handle Inches	Size of Drill Socket	For Morse Taper Drills Inches	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 1/2	No. 1 Morse	1/8 to 3/8	6 1/8	1 3/4	5	\$13 00	1
2	13	" 2 "	3/8 to 1/2	7 1/2	2	6 1/2	16 00	2
3	16	" 3 "	1/2 to 1 1/4	9 1/2	2 3/8	10	20 00	3
4	18	" 4 "	1 1/4 to 2	11	2 1/2	12 1/2	25 00	4

PARTS

	No. 1	No. 2	No. 3	No. 4
 Handle	\$4 50	\$5 75	\$6 90	\$8 75
 Socket	3 25	4 00	5 00	6 25
 Sleeve	1 40	1 70	2 10	2 70
 Screw	60	95	1 20	1 50
 Screw Point . . .	40	45	50	60
 Collar and Screw .	65	80	1 00	1 25
 Gear	70	80	1 00	1 25
 Stud	25	30	45	50
 Pawl and Pin . . .	65	80	1 00	1 25
 Socket Nut	65	75	90	1 00

When ordering specify Number, Model and Finish

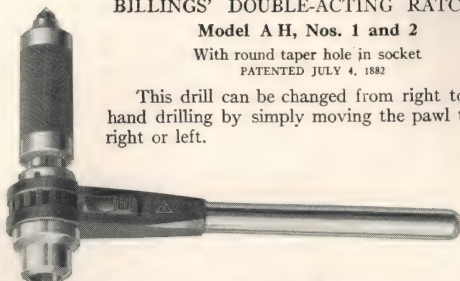
BILLINGS' DOUBLE-ACTING RATCHET

Model A H, Nos. 1 and 2

With round taper hole in socket

PATENTED JULY 4, 1882

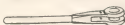
This drill can be changed from right to left-hand drilling by simply moving the pawl to the right or left.



PRICE LIST MODEL A H

No.	Length of Handle Inches	Size of Drill Socket	For Morse Taper Drills Inches	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
1	10 1/2	No. 2 Morse	3/4 to 7/8	7 1/4	1 1/2	4 3/4	\$11 00	1
2	13	" 3 "	5/8 to 1 1/4	8 3/8	1 3/4	7	14 00	2

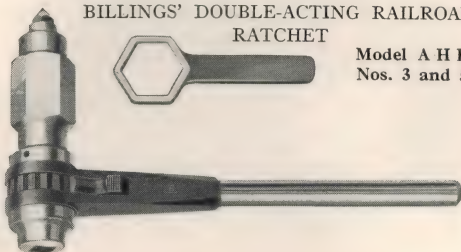
PARTS—EACH

	No. 1	No. 2
 Handle	\$3 25	\$4 00
 Socket	2 95	3 80
 Sleeve	95	1 25
 Gear	60	80
 Pawl	70	80
 Pawl Pin	10	10
 Screw	60	85
 Screw Point	30	40
 Socket Nut	65	75
 Plunger and Spring	20	25
 Stud	25	30

When ordering specify Number, Model and Finish

BILLINGS' DOUBLE-ACTING RAILROAD
RATCHET

Model A H H
Nos. 3 and 5



This tool has been designed by us to meet modern requirements for a heavy duty ratchet adapted to hard work, such as drilling nickel steel rails, etc.

Its special features are,—double action or reversibility; large bearing surfaces; adjustment to take up wear; a hardened steel feed-screw point, which can be removed and replaced.

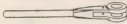
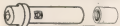
A special feed wrench for the hexagon sleeve is furnished with each ratchet.

PRICE LIST MODEL A H H

No.	Length of Handle Inches	Size of Drill Socket	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
3	15	Morse No. 2 Square Taper	9	3 1/4	12*	\$22 00	3
5	20 1/2	" " 2 " "	11	3 1/2	16 3/4*	30 00	5

*Weight includes wrench.

PARTS—EACH

	No. 3	No. 5
 Handle	\$8 20	\$11 00
 Socket and Nut	5 80	8 00
 Sleeve	2 85	3 90
 Gear	1 30	1 80
 Pawl	1 30	1 80
 Feed Screw	1 00	1 40
 Feed Screw Point	45	60
 Stud	25	30
 Collar and Screw	90	1 20
 Wrench	40	60

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

BILLINGS' DOUBLE-ACTING HEAVY DUTY BOILER RATCHET

Model B X, No. 3

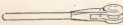


PRICE LIST MODEL B X

No.	Length of Handle Inches	Size of Drill Socket	Length of Head Inches	Feed Inches	Weight Pounds	Price Each	No.
3	15	Morse No. 2 Square Taper	5 ½	2	7 ¾	\$20 00	3

PARTS—EACH

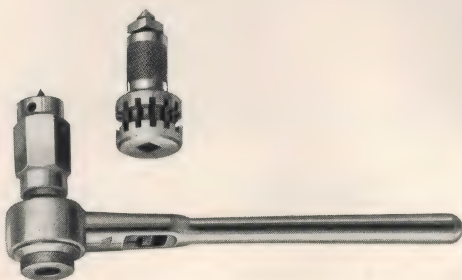
No. 3

	Handle	\$8 20
	Socket and Nut	5 00
	Gear	1 30
	Pawl	1 30
	Feed Screw	1 25
	Stud	30
	Collar and Screw	1 25

When ordering specify Number, Model and Finish

BILLINGS' No. 0 DOUBLE-ACTING RATCHET

Model A I I



A new combination tool for light work. Double-acting or reversible

This Ratchet differs materially from those now on the market in that the change of sockets is quickly and easily made without the use of a wrench or other tool.

The tool is drop-forged from Open Hearth steel. All working parts are hardened, and the tool is thoroughly high grade in all respects.

PRICE LIST MODEL A I I

No.	Length of Handle Inches	Size of Drill Socket	For Morse Taper Drill Bit Shank Drills	Length of Head Inches	Feed In.	Price Each	No.
0 Taper	8	No. 1 Morse	$\frac{1}{16}$ to $\frac{3}{16}$	$3\frac{3}{4}$	1	\$5 00	0 Taper
0 Square	8	Bit Stock Taper	Bit Shank Drills	$2\frac{3}{4}$	$\frac{3}{4}$	4 50	0 Square



Model A I

PARTS—EACH

Handle, complete	\$2 50
Taper Socket and Sleeve	2 50
Square Socket and Feed Screw	2 00
Handle with Taper and Square Sockets	7 00

When ordering specify Number, Model and Finish

TAPER SLEEVE

Model A K

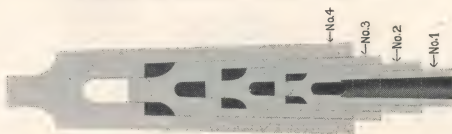
Fitted to Standard Sizes of Taper Shank Drills



SIZE AND PRICE LIST MODEL A K

No.	SIZE		For Morse Taper Drills Inches	Price Each	No.
	Inside	Outside			
1-2	No. 1 Morse	No. 2 Morse	$\frac{1}{16}$ - $\frac{9}{16}$	\$1 80	1-2
2-3	" 2 "	" 3 "	$\frac{5}{16}$ - $\frac{29}{32}$	2 40	2-3
3-4	" 3 "	" 4 "	$\frac{3}{8}$ - $1 \frac{1}{4}$	3 00	3-4
4-5	" 4 "	" 5 "	$1 \frac{17}{64}$ - 2	4 40	4-5

TAPER SLEEVES TELESCOPED



FLAT DRILL SOCKET

Model A L

With Morse Taper Shank

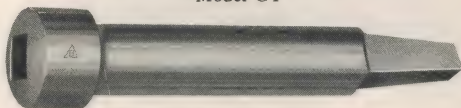


SIZE AND PRICE LIST MODEL A L

No.	Size of Shank	Takes Drills with Square Taper Shanks	Price, Each	No.
00	No. 1 Morse	Bit Stock Shanks	\$1 80	00
0	" 2 "	" " "	1 80	0
1	" 2 "	No. 1, Shank $\frac{3}{8}$ " x $\frac{5}{8}$ " Square	2 00	1
2	" 3 "	" 1 " $\frac{3}{8}$ " x $\frac{5}{8}$ " "	2 00	2
3	" 4 "	" 2 " $\frac{1}{2}$ " x $\frac{3}{4}$ " "	2 50	3

When ordering specify Number, Model and Finish

RATCHET EXTENSION
Model C I



PRICE LIST

No.	Length Over-all Inches	SIZE		Takes Drills with Square Taper Shanks	Price Each	No.
		Inside	Outside			
1	10	No. 2 Morse Square . .	No. 2 Morse Square . .	No. 2 Shank $\frac{1}{2} \times \frac{3}{4}$ Square	\$4 50	1
2	12	No. 2 Morse Square . .	No. 2 Morse Square . .	No. 2 Shank $\frac{1}{2} \times \frac{3}{4}$ Square	5 50	2

REDUCING COLLET
Model C J



PRICE LIST

No.	SIZE		Takes Drills with Square Taper Shanks	Price Each	No.
	Inside	Outside			
1	No. 0 Morse Square	No. 1 Morse Square	Bit Stock Shank	\$1 25	1
2	" 0 " "	" 2 " "	" " "	1 50	2
3	" 1 " "	" 2 " "	Morse No. 1 Shank	2 00	3

DRIFT
Model A O

These Drifts are drop-forged from O. H. steel, finished and case-hardened.



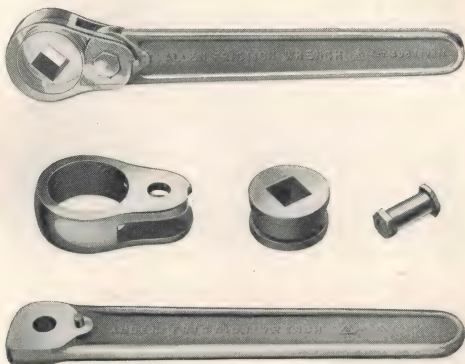
PRICE LIST

No.	Length	Price, Each	No.
1	. 7 in.	\$0 30	1

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. "ALLEN-FRICTION" SOCKET WRENCH
Model C A



The B. & S. "Allen-Friction" Socket Wrench is made up of four parts: the handle, head, socket and bolt. The bolt holds the parts together, and also acts as a fulcrum for the handle as it engages its friction end with the socket. The simplicity of the tool is obvious. It has no springs nor teeth, and no lost motion. Its grip is instantaneous and can be operated in small spaces where a ratchet wrench would be useless. It is reversible. The tool is mechanically correct in principle and in operation. It is made from steel drop forgings throughout.

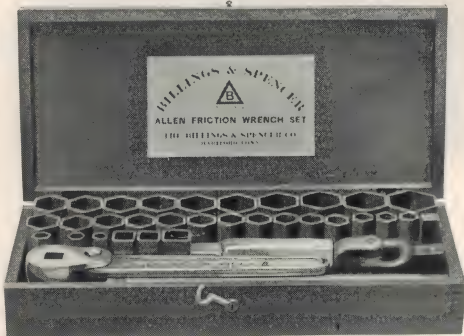
PRICE LIST MODEL C A

B. & S. "Allen-Friction" wrench, Model C A, No. 10. All parts drop-forged and nickel plated, length over-all $8\frac{1}{2}$ inches each \$3 00

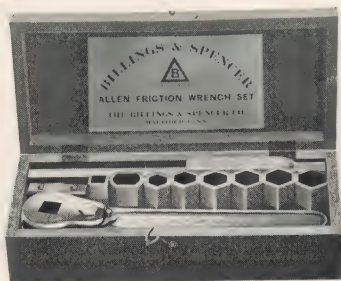
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

B. & S. "ALLEN-FRICTION" SET No. 31



B. & S. "ALLEN-FRICTION" FORD SPECIAL SET



A strictly high-grade Wrench Set for Ford Cars.

The Allen-Friction Wrench, with NO LOST MOTION, works in places where no ratchet wrench can be used, including ALL Crank Shaft Bearings.

When ordering specify Number, Model and Finish

THE B. & S. "ALLEN-FRICTION" SOCKET WRENCH SETS

FOR GARAGES, AUTOMOBILES, TRUCKS, MOTOR BOATS, ETC.

Set No. 31 \$10 00

Consists of 1 Allen-Friction Wrench, Model C A, No. 10; Spark Plug Socket, Short Extension, Long Extension, Screw-Driver, Universal Joint, and 30 Pressed Steel Sockets, specially Heat Treated, ranging in 32nds from $\frac{3}{16}$ in. hexagon to $\frac{1}{4}$ in. hexagon; also $1\frac{1}{2}$ in., $1\frac{1}{4}$ in., $1\frac{1}{2}$ in. hexagon and $\frac{1}{2}$ in., $\frac{3}{4}$ in., and $\frac{1}{2}$ in. square.

Put up in special wood box.

Set No. 21 \$8 00

Consists of 1 Allen-Friction Wrench, Model C A, No. 10; Spark Plug Socket, Short Extension, Long Extension, Screw-Driver, Universal Joint, 20 Pressed Steel Sockets, specially heat treated of the following sizes:— $\frac{1}{32}$ in., $\frac{1}{16}$ in., $\frac{1}{8}$ in., $\frac{1}{4}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in., $\frac{1}{2}$ in., $\frac{3}{8}$ in., $\frac{1}{4}$ in., $\frac{1}{8}$ in., $\frac{1}{16}$ in., $\frac{1}{32}$ in., hexagon and $\frac{1}{2}$ in. square.

Put up in special wood box.

Set No. 9 \$5 00

Consists of 1 Allen-Friction Wrench, Model C A, No. 10; Spark Plug Socket, Short Extension, Long Extension, 8 Pressed Steel Sockets, Specially Heat Treated, of the following sizes:— $\frac{1}{32}$ in., $\frac{1}{16}$ in., $\frac{1}{8}$ in., $\frac{1}{4}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in., $1\frac{1}{2}$ in. hexagon.

Put up in special wood box.

Ford Special Set \$5 00

Same as Set No. 9 except Special Sockets to fit nuts of the Ford Automobile.

Put up in special wood box.

PRICE OF PARTS

Name	Price Each	Price Per doz.
Allen-Friction Wrench, Model C A, No. 10	\$3 00	
Pressed Steel Sockets	20	\$2 00
Spark Plug Sockets	25	
Universal Joint	85	
Short Extension	40	
Long Extension	60	
Screw-Driver	50	

When ordering specify Number, Model and Finish

THE EUREKA RATCHET WRENCH

Patent Pending.

Model C B



This New and Improved Ratchet Wrench is made from the Best Drop Forgings, carefully machined and hardened.

A vise-like grip is obtained by the pawl engaging the teeth of a socket piece, furnished with the tool and included in price.

This Wrench cannot be too highly commended for its Strength, Simplicity and Durability.

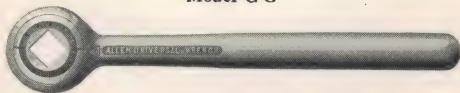
This Wrench is sold separately or with any assortment of pressed steel sockets.

Length $7\frac{1}{2}$ inches. Fully nickeled.

PRICE MODEL C B, \$1 50

THE B. & S. "ALLEN UNIVERSAL" RATCHET WRENCH

Model C G



A drop-forged Wrench throughout carefully machined and all parts hardened. The "Universal Joint" principle makes this tool adaptable for use at any angle and in places where a straight Wrench could not be used.

Sold separately or with any assortment of our pressed steel sockets.

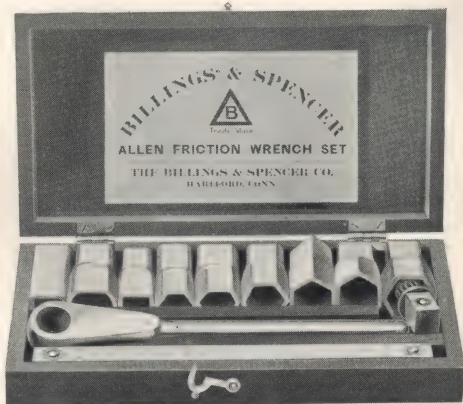
Length $8\frac{3}{4}$ inches. Full Nickel Finish.

PRICE MODEL C G ONLY, EACH \$2 50

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE EUREKA FORD SPECIAL SOCKET WRENCH SET



Made from the Best of Materials to Sell at a Moderate Price.

It is the only Wrench Set selling at or near this price which contains a Hardened Drop-Forged Wrench.

THE "EUREKA" FORD SPECIAL WRENCH SET

Consists of: Eureka Ratchet Wrench, with Short Extension, One Long Extension, 9 Pressed Steel Sockets, specially heat treated, including a Special Oval Socket; Special Box.

PRICE, \$3 50

When ordering specify Number, Model and Finish

BILLINGS' DROP-FORGED LATHE DOG, WITH BENT TAIL

Model A R

These Dogs are forged from the best bar steel, insuring the required strength and toughness for modern lathe work.

PRICE LIST MODEL A R



No.	Size	Weight	Price, each	No.
1	$\frac{3}{8}$ in.	3 $\frac{1}{4}$ oz.	\$0 50	1
2	$\frac{1}{2}$ in.	5 oz.	55	2
3	$\frac{3}{4}$ in.	9 oz.	60	3
4	1 in.	14 $\frac{1}{2}$ oz.	70	4
5	1 $\frac{1}{4}$ in.	1 $\frac{1}{2}$ lb.	85	5
6	1 $\frac{1}{2}$ in.	2 lb.	1 00	6
7	1 $\frac{3}{4}$ in.	2 $\frac{3}{4}$ lb.	1 20	7
8	2 in.	3 $\frac{3}{4}$ lb.	1 40	8
9	2 $\frac{1}{2}$ in.	5 $\frac{1}{4}$ lb.	1 80	9
10	3 in.	6 $\frac{1}{2}$ lb.	2 30	10
11	3 $\frac{1}{2}$ in.	9 $\frac{3}{4}$ lb.	3 00	11
12	4 in.	11 $\frac{1}{2}$ lb.	4 50	12
13	5 in.	17 lb.	8 00	13

BILLINGS' DROP-FORGED SAFETY LATHE DOG, WITH BENT TAIL

Patented Nov. 19, 1912

A perfect protective device, simple in action, and retaining the usual Dog Screw.

PRICE LIST MODEL A R



No.	Size	Guards Only, each	Complete, each	No.
1A	$\frac{3}{8}$ in.	\$0 10	\$0 60	1A
2A	$\frac{1}{2}$ in.	12	70	2A
3A	$\frac{3}{4}$ in.	15	75	3A
4A	1 in.	18	90	4A
5A	1 $\frac{1}{4}$ in.	20	1 10	5A
6A	1 $\frac{1}{2}$ in.	24	1 25	6A
7A	1 $\frac{3}{4}$ in.	25	1 45	7A
8A	2 in.	30	1 70	8A
9A	2 $\frac{1}{2}$ in.	35	2 15	9A
10A	3 in.	40	2 70	10A
11A	3 $\frac{1}{2}$ in.	45	3 45	11A
12A	4 in.	50	5 00	12A

Price list of Dog Screws see page 40 of catalog.

When ordering specify Number, Model and Finish

BILLINGS' DROP-FORGED LATHE DOG, WITH STRAIGHT TAIL

Model A S

Drop-forged from the best Bar Steel.

SIZE AND PRICE LIST MODEL A S



No.	Size	Weight	Price, Each	No.
21	$\frac{3}{8}$ in.	3 oz.	\$0 50	21
22	$\frac{1}{2}$ in.	4 $\frac{1}{2}$ oz.	55	22
23	$\frac{3}{4}$ in.	7 $\frac{1}{2}$ oz.	60	23
24	1 in.	13 oz.	70	24
25	1 $\frac{1}{4}$ in.	1 $\frac{3}{8}$ lb.	85	25
26	1 $\frac{1}{2}$ in.	1 $\frac{3}{4}$ lb.	1 00	26
27	1 $\frac{3}{4}$ in.	2 $\frac{3}{8}$ lb.	1 20	27
28	2 in.	2 $\frac{3}{4}$ lb.	1 40	28
29	2 $\frac{1}{2}$ in.	5 $\frac{1}{4}$ lb.	1 80	29
30	3 in.	7 $\frac{1}{4}$ lb.	2 30	30
31	3 $\frac{1}{2}$ in.	11 $\frac{1}{4}$ lb.	3 00	31
32	4 in.	14 $\frac{1}{4}$ lb.	4 50	32
33	5 in.	17 lb.	8 00	33

BILLINGS' DROP-FORGED SAFETY LATHE DOG, WITH STRAIGHT TAIL

Patented Nov. 19, 1912

Model A S

SIZE AND PRICE LIST MODEL A S



No.	Size	Guaranteed	Complete	No.
21A	$\frac{3}{8}$ in.	\$0 10		21A
22A	$\frac{1}{2}$ in.	12		22A
23A	$\frac{3}{4}$ in.	15		23A
24A	1 in.	18		24A
25A	1 $\frac{1}{4}$ in.	20		
26A	1 $\frac{1}{2}$ in.	24	1	
27A	1 $\frac{3}{4}$ in.	25	1 45	
28A	2 in.	30	1 70	
29A	2 $\frac{1}{2}$ in.	35	2 15	
30A	3 in.	40	2 70	30A
31A	3 $\frac{1}{2}$ in.	45	3 45	31A
32A	4 in.	50	5 00	32A

Price List of Dog Screws see page 40 of catalog.

When ordering specify Number, Model and Finish

BILLINGS' DROP-FORGED DOUBLE SCREW LATHE DOG, STRAIGHT OR BENT TAIL

Model A T

Specially designed for high speed and heavy lathe work.



SIZE AND PRICE LIST MODEL A T

No.	Size	Weight	Straight Tail Price, Each	Bent Tail Price, Each	No.
41	5 in.	25 lbs.	\$12 00	\$12 00	41
42	6 in.	35 lbs.	17 00	17 00	42

PRICE LIST OF SCREWS

HARDENED STEEL

Same size screw is used for both 5 in. and 6 in. Dogs, 1 in. diameter.

Bent Tail, 4 1/2 in. long each \$0 50
Straight Tail, 4 1/2 in. long " 50

SIZE AND PRICE LIST OF DOG SCREWS FOR MODELS AR AND AS

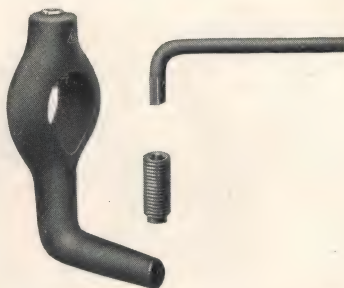
HARDENED STEEL

Size Dog	Screw		Price, Each	Size Dog	Screw		Price, Each
	Diameter	Length			Diameter	Length	
3/8	3/8	1 1/4	\$0 08	2	5/8	2 3/4	\$0 23
1/2	3/8	1 1/4	10	2 1/2	3/4	3	24
3/4	7/16	1 3/8	12	3	3/4	3 1/4	27
1	1/2	2	15	3 1/2	7/8	3 1/2	32
1 1/4	9/16	2 1/4	16	4	1	3 3/4	35
1 1/2	9/16	2 3/8	18	5	1	4 1/2	50
1 3/4	5/8	2 1/2	20				

When ordering specify Number, Model and Finish

DROP-FORGED HEADLESS SCREW BENT TAIL LATHE
DOGS

Model CK



Drop-forged from the best Bar Steel. The special patented headless screws in these dogs are threaded U. S. S. and hardened. They are the same diameter as our square head screws and are interchangeable.

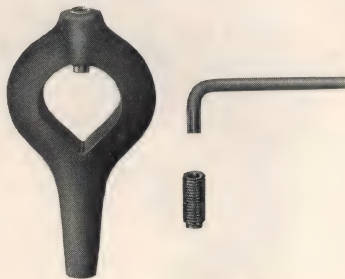
PRICE LIST MODEL CK

No.	Size Inches	SCREWS			Wrench Extra	Dog with Screw	No.
		Diameter Inches	Length Inches	Price			
1B	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$	\$0 12	\$0 06	\$0 50	1B
2B	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	12	06	55	2B
3B	$\frac{3}{4}$	$\frac{7}{16}$	$1\frac{1}{16}$	15	10	60	3B
4B	1	$\frac{1}{2}$	$1\frac{1}{4}$	17	11	70	4B
5B	$1\frac{1}{4}$	$\frac{9}{16}$	$1\frac{3}{8}$	22	12	85	5B
6B	$1\frac{1}{2}$	$\frac{9}{16}$	$1\frac{13}{16}$	27	12	1.00	6B
7B	$1\frac{3}{4}$	$\frac{5}{8}$	$1\frac{13}{16}$	32	13	1.20	7B
8B	2	$\frac{5}{8}$	$1\frac{13}{16}$	32	13	1.40	8B
9B	$2\frac{1}{2}$	$\frac{3}{4}$	$2\frac{1}{4}$	37	16	1.80	9B
10B	3	$\frac{3}{4}$	$2\frac{3}{8}$	45	16	2.30	10B
11B	$3\frac{1}{2}$	$\frac{7}{8}$	$2\frac{3}{8}$	52	25	3.00	11B
12B	4	$\frac{7}{8}$	$2\frac{13}{16}$	60	25	4.50	12B
13B	5	1	$3\frac{1}{8}$	70	30	8.00	13B

When ordering specify Number, Model and Finish

DROP-FORGED HEADLESS SCREW STRAIGHT TAIL LATHE DOGS

Model CL



Drop-forged from the best Bar Steel. The special patented headless screws in these dogs are threaded U. S. S. and hardened. They are the same diameter as our square head screws and are interchangeable.

PRICE LIST MODEL CL

No.	Size Inches	SCREWS			Wrench Extra	Dog with Screw	No.
		Diameter Inches	Length Inches	Price			
21B	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{4}$	\$0 12	\$0 06	\$0 50	21B
22B	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$	12	06	55	22B
23B	$\frac{3}{4}$	$\frac{7}{16}$	$1\frac{1}{16}$	15	10	60	23B
24B	1	$\frac{1}{2}$	$1\frac{1}{4}$	17	11	70	24B
25B	$1\frac{1}{4}$	$\frac{9}{16}$	$1\frac{3}{8}$	22	12	85	25B
26B	$1\frac{1}{2}$	$\frac{9}{16}$	$1\frac{11}{16}$	27	12	1 00	26B
27B	$1\frac{3}{4}$	$\frac{5}{8}$	$1\frac{13}{16}$	32	13	1 20	27B
28B	2	$\frac{5}{8}$	$1\frac{15}{16}$	32	13	1 40	28B
29B	$2\frac{1}{2}$	$\frac{3}{4}$	$2\frac{1}{4}$	37	16	1 80	29B
30B	3	$\frac{3}{4}$	$2\frac{3}{8}$	45	16	2 30	30B
31B	$3\frac{1}{2}$	$\frac{7}{8}$	$2\frac{5}{8}$	52	25	3 00	31B
32B	4	$\frac{7}{8}$	$2\frac{13}{16}$	60	25	4 50	32B
33B	5	1	$3\frac{1}{8}$	70	30	8 00	33B

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

DROP-FORGED HEADLESS SCREW BENT AND STRAIGHT TAIL DOUBLE SCREW LATHE DOGS

Models CM and CN



These double screw dogs are made throughout in the same thorough manner as our other dogs and are specially designed for high speed and heavy lathe work. The screws are of ample strength for the work required.

PRICE LIST MODELS CM AND CN

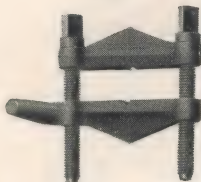
No	Size, Inches	SCREWS FOR EITHER			Wrench Extra	Straight Tail with Screws	Bent Tail with Screws	No
		Diameter Inches	Length Inches	Price				
41B	5	1	3 ½	\$0 80	\$0 40	\$12 00	\$12 00	41B
42B	6	1	3 ½	80	40	17 00	17 00	42B

When ordering specify Number, Model and Finish

CLAMP DOG, CLAMP DOG WITH SWIVEL JAW, DIE DOG

Models A U, A V and A W

Model A U



Drop-forged from best Bar Steel.

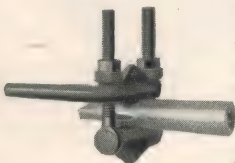
PRICE LIST MODEL A U

No.	Between Screws	Weight	Price, Each
1	1 3/4 in.	7 1/2 oz.	\$1 50
2	2 1/4 in.	12 3/4 oz.	2 00
3	2 3/4 in.	1 lb., 7 oz.	2 50
1	Screw	each	16
2	"	"	24
3	"	"	28

CLAMP DOGS WITH SWIVEL JAW

The accompanying cut shows our Patent Clamp Dog for holding taper pieces. The top jaw rolls in the eye of the screw conforming to the taper of the piece, holding it securely. It can also be used on straight pieces.

Model A V



PRICE LIST MODEL A V

No.	Between Screws	Weight	Price, Each
00 Amateur	3/4 in.	1 3/4 oz.	\$0 75
0 Amateur	1 1/4 in.	3 3/4 oz.	1 25
1	1 3/4 in.	8 1/4 oz.	1 75
2	2 1/4 in.	13 oz.	2 25
3	2 3/4 in.	1 lb., 8 oz.	2 75
00	Screw	each	10
0	"	"	10
1	"	"	12
2	"	"	18
3	"	"	25

Model A W



DIE DOGS

PRICE LIST MODEL A W

No.	Between Sides	Price, Each
1	1 1/4 in.	\$3 00
2	2 in.	4 00

EXTRA DIES

1	Per Pair	\$0 50
2	" "	75
Screw for No. 1 or No. 2	each	10

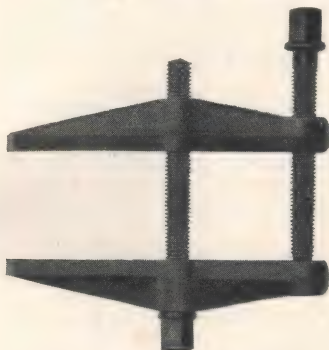
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. DROP-FORGED MACHINISTS' CLAMP

Model A X. Nos. 1 to 4

Drop-forged from Open Hearth steel.



PRICE LIST MODEL A X

No.	Opening	Depth of Jaw	Price Each	No.
1	1 ¼ in.	2 in.	\$1 50	1
2	2 ¼ in.	2 ½ in.	2 00	2
3	3 ¼ in.	3 in.	2 50	3
4	4 ¼ in.	3 ½ in.	3 00	4

SCREWS, EACH

1	\$0 16
2	24
3	32
4	46

Screws furnished for B. & S. make of clamp only

THE B. & S. DROP-FORGED STEEL "C" CLAMP

Model A Y. Nos. 1 to 5

Drop-forged from Open Hearth steel.



PRICE LIST MODEL A Y

No.	Opens	Center of Screw to Back*	Weight	Price, Each	No.
1	1 ¼ in.	1 in.	5 oz.	\$0 75	1
2	2 ¼ in.	1 ⅞ in.	2 lb.	1 75	2
3	3 ¼ in.	2 ½ in.	5 ¼ lb.	2 50	3
4	4 ½ in.	2 ⅞ in.	7 ½ lb.	3 25	4
5	6 ½ in.	3 ⅞ in.	11 ½ lb.	4 00	5

SCREWS

No.	Diameter	Length	Price, Each	No.
1	⅜ in.	2 ¼ in.	\$0 10	1
2	⅝ in.	4 in.	11	2
3	¾ in.	5 ¼ in.	28	3
4	⅞ in.	6 ¾ in.	35	4
5	1 in.	9 ¼ in.	60	5

When ordering specify Number, Model and Finish

THE B. & S. IMPROVED DROP-FORGED "C" CLAMP

Model A Z

This new and improved "C" Clamp is considerably lighter and at the same time very materially stiffer and stronger than the usual style of "C" Clamp. We furnish these clamps as listed below with either square head screw, winged square head screws, or winged square head screw, with ball and swivel.



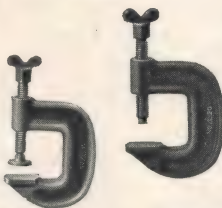
PRICE LIST MODEL A Z

Improved "C" Clamps

WITH SQUARE HEAD SCREWS		WITH WINGED SCREWS		WITH WINGED SCREW AND SWIVEL	
No.	Price, Each	No.	Price, Each	No.	Price, Each
110	\$0 50	20	\$0 50	30	\$0 60
111	75	21	75	31	90
112	1 25	22	1 30	32	1 35
113	1 75	23	1 80	33	2 00
114	2 50	24	2 60	34	2 80
115	3 50	25	3 50	35	3 80
116	4 00	26	4 25	36	4 55
117	5 00	27	5 30	37	5 80
118	7 00	28	7 25	38	7 75

SCREWS

SQUARE HEAD SCREWS		WINGED SCREWS		WINGED SCREW AND SWIVEL	
No.	Price, Each	No.	Price, Each	No.	Price, Each
110	\$0 08	20	\$0 10	30	\$0 20
111	11	21	12	31	24
112	14	22	17	32	34
113	20	23	20	33	38
114	28	24	30	34	50
115	38	25	48	35	80
116	50	26	55	36	80
117	65	27	70	37	1 10
118	85	28	90	38	1 30



DIMENSIONS

IMPROVED "C" CLAMP MODEL A Z

No.	Opening	Length of Screw Under Head	Center of Screw to Back	Diameter of Screw	WEIGHT		No.
					Lbs.	Oz.	
110, 20 & 30	¾	1 ⅜	⅝	⅝		2 ¾	110, 20 & 30
111, 21 & 31	1 ¼	2 ¼	⅞	⅞		5 ¾	111, 21 & 31
112, 22 & 32	1 ½	3 ⅞	1 ⅞	⅞	1	1 ½	112, 22 & 32
113, 23 & 33	2 ¼	3 ⅞	1 ¾	⅞	2		113, 23 & 33
114, 24 & 34	3 ⅞	5 ⅞	2 ½	¾	4 ½		114, 24 & 34
115, 25 & 35	4 ½	6 ⅞	2 ⅞	¾	7		115, 25 & 35
116, 26 & 36	5 ½	8	3	¾	8 ½		116, 26 & 36
117, 27 & 37	6 ½	9 ¼	3 ⅞	1	11 ½		117, 27 & 37
118, 28 & 38	8 ½	11 ½	3 ⅞	1 ½	18 ½		118, 28 & 38

When ordering specify Number, Model and Finish

THE B. & S. DROP-FORGED STEEL TOOL MAKERS' "C" CLAMPS

Model B C

PRICE LIST MODEL B C

Tool Makers' "C" Clamps, with Winged Square Head Screw.

No.	Price Each
40	\$0 70
41	80
42	90
43	1 20

Tool Makers' "C" Clamps, with Winged Square Head Screw, with Ball and Swivel.

No.	Price Each
50	\$0 85
51	95
52	1 10
53	1 40

SCREWS

Winged Square Head Screws.

No.	Price Each
40	\$0 15
41	15
42	20
43	20

Winged Square Head Screw with Ball and Swivel.

No.	Price Each
50	\$0 25
51	25
52	30
53	30

DIMENSIONS

TOOL MAKERS' "C" CLAMP MODEL B C

No.	Opening	Length of Screw Under Head	Center of Screw to Back	Diameter of Screw	Weight Oz.	No.
40 & 50	1 ¼	2 ¼	5/8	5/16	3 ½	40 & 50
42 & 52	2 ½	2 ¾	15/16	3/8	6 ¾	42 & 52
41 & 51	3	2 ½	5/8	5/16	4 ½	41 & 51
43 & 53	4	2 ¾	15/16	3/8	8	43 & 53



Nos. 40 to 43



Nos. 50 to 53

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

CHUCKING REAMER HOLDER

Drop-forged from Bar Steel

Model B D



PRICE LIST MODEL B D

No.	Size of Hole	Size of Handle	Length of Handle from Center of Hole	Price, each	No
1	$\frac{3}{16}$ in.	$\frac{1}{2}$ in.	10 in.	\$0 85	1
2	$\frac{1}{4}$ in.	$\frac{5}{8}$ in.	12 in.	1 00	2
3	$1\frac{1}{8}$ in.	$\frac{13}{16}$ in.	$13\frac{1}{4}$ in.	1 25	3
4	$1\frac{1}{4}$ in.	$1\frac{1}{8}$ in.	15 in.	1 50	4

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

BILLINGS' PATENT CUTTING-OFF TOOL

An Improved Design, Strong and Durable

Model B E



Size of Holder, $1\frac{1}{4} \times \frac{3}{4} \times 6$ in.

The Improved Cutting-off Tool Holder is made with two separable segments, provided with two screws for clamping the segments together for the purpose of holding the cutter fast while grinding. The force of the screw of the tool post not only retains the Holder in proper position, but also holds the Cutter with all necessary additional firmness. The heavy screw at the forward end of the Holder has a three-eighth-inch projecting head, and is operated by a wrench furnished with the Holder. The rear screw has a slot for screw-driver, and is countersunk. The Holder is drop-forged of open-hearth steel, finished in a thorough manner and case-hardened. The cutters are made of the best tool steel.

PRICE LIST MODEL B E

Holder (including one blade $\frac{3}{16}$ inch unless otherwise specified, and a drop-forged wrench) each \$2 50

BLADES

BEST TOOL STEEL

Thickness	each	Price
$\frac{3}{16}$ in. thick	each	\$0 30
$\frac{1}{8}$ in. "	"	40
$\frac{1}{4}$ in. "	"	40
$\frac{3}{8}$ in. "	"	40
$\frac{1}{2}$ in. "	"	50
$\frac{3}{4}$ in. "	"	50
$1\frac{1}{4}$ in. "	"	60

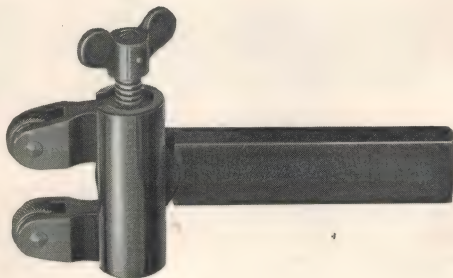
When ordering specify Number, Model and Finish

BILLINGS' IMPROVED NURLING TOOL

For Use in Engine Lathe for Nurling Metal

Patented November 21, 1899

Model B J



The movable arms holding the nurls, in connection with the rocking joint, have a positive opening and closing movement in parallel lines, actuated by a right and left-hand screw, moving the nurls toward and from each other.

The nurls will center themselves to the work. Nurling can easily be done with this tool that is impossible to accomplish with any other now on the market.

Maximum opening between Nurls	1 $\frac{3}{8}$ in.
Minimum opening between Nurls	$\frac{3}{16}$ in.
Depth from center of Nurls	$\frac{7}{8}$ in.
Width of Nurls	$\frac{3}{16}$ in.
Diameter of Nurls	$\frac{3}{4}$ in.

Nurls of three pitches carried in stock:—Coarse, Medium and Fine.

PRICE LIST MODEL B J

	Each
Holder only, 1 x $\frac{1}{2}$ x 6 in.	\$4 25
Holder, with one pair of Nurls, medium unless otherwise specified	5 00
Extra Nurls, per pair	75

When ordering specify Number, Model and Finish

BILLINGS' PATENT HAND VISES

Model B K

Patented Aug. 28, 1894

Cuts, 1-3 size

Model B K



This Vise is designed for jewelers', tool makers', and machinists' use. All parts are drop-forged of best steel for the purpose. The jaws have a positive opening and closing movement in parallel lines actuated by a right and left-hand screw, moving the jaws simultaneously towards or from each other. A hole is entirely through the handle, and the jaws will grasp and hold central, round wire from 1-16-inch up to and including 1-4-inch in diameter. The jaws open 3-4 inch.

PRICE LIST MODEL B K

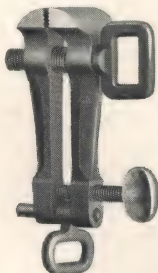
Vise, without Clamp each \$4 00

LINEMEN'S HAND VISES

Model B L

With Parallel Jaws

Model B L



For the use of electric light, telegraph and telephone linemen. Drop-forged from open hearth steel, and finished in the best possible manner. All parts are interchangeable, and the jaws are specially hardened. The jaws are parallel, which gives them a very strong grip, an opening being left in the thumb-screw head for extra purchase with lever if wanted, and the action of the screw is such that the adjustment is very rapid

PRICE LIST MODEL B L

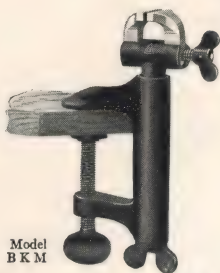
No.		Price
1	Vise, with loop	each \$2 50
2	Vise, without loop, for machines,	
		each 2 25

When ordering specify Number, Model and Finish

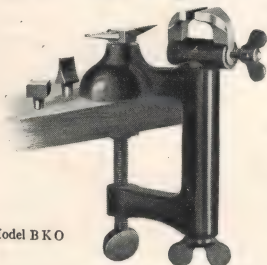
BILLINGS' PATENT HAND VISES

WITH CLAMPS

Cuts $\frac{1}{8}$ size



Model
B K M



Model B K O

These tools are designed for the use of jewelers and tool makers, and for fine work generally. Very conveniently arranged combinations.

They comprise our drop-forged hand vise with parallel jaws; a clamp with or without anvil base, and drop-forged horn and square anvil, and hardy.

The jaws of vise and the anvils and hardy are polished, and the whole is handsomely finished.

PRICE LIST

Model

B K M	Hand vise with plain clamp, complete	\$6 00
B M	Plain clamps, each	2 00
B K O	Hand vise with clamp and anvil base, including anvils and hardy, complete	\$9 00
B O	Clamp with anvil base, including anvils and hardy	\$5 00

JEWELERS' ANVIL, WITH BASE

Model B P

These tools are especially designed for jewelers' or amateurs' use. The base is drop-forged from steel and is furnished either nickel plated or case-hardened. The anvils and hardy are drop-forged from suitable steel and properly hardened.



Model B P

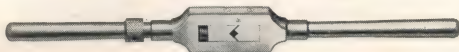
PRICE LIST MODEL B P

Base, with the two anvils and hardy, complete	\$2 00
Base	each 70
Horn Anvil	" 80
Square Anvil	" 50
Hardy	" 40

When ordering specify Number, Model and Finish

BILLINGS' PATENT ADJUSTABLE TAP AND REAMER WRENCH

Model K. Nos. 0, 1 and 2



The Tap Wrench here represented is drop-forged from mild bar steel and the Dies are made of the best tool steel.

PRICE LIST MODEL K

No.		Price
0	Entire length, 6 $\frac{3}{4}$ in., fitting Taps from $\frac{1}{8}$ to $\frac{1}{4}$ in., Reamers from $\frac{1}{8}$ to $\frac{1}{4}$	\$2 25
1	Entire length, 15 in., fitting Taps from $\frac{1}{4}$ to $\frac{3}{4}$ in., Reamers from $\frac{1}{4}$ to $\frac{3}{4}$	3 50
2	Entire length, 23 in., fitting Taps from $\frac{3}{4}$ to 1 $\frac{1}{4}$ in., Reamers from $\frac{3}{8}$ to 1 $\frac{1}{4}$	5 00

PARTS

No.	Handle	Frame	Dies
0	\$0 75	\$1 00	\$0 50
1	1 00	1 75	75
2	1 50	2 25	1 25

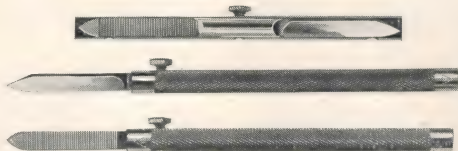
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

COMBINATION KNIFE, FILE AND NAIL CLEANER

BILLINGS' PATENT, MARCH 15, 1892

Model C D



Length closed, $3\frac{1}{2}$ inches.

The Knife and File are fastened end to end and slide back and forth within the handle which is made of steel tubing. The blades are shifted to either end by means of a sliding bolt in the center, which passes through a slot running the length of the handle, and locks blade at its respective end. It is a novel and handy device.

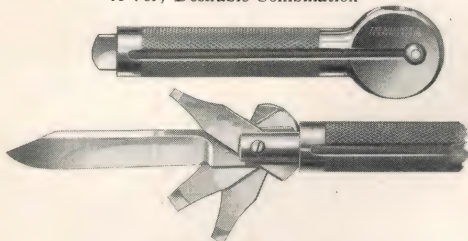
Price each \$0 75

COMBINATION MAGAZINE KNIFE AND SCREW-DRIVERS

BILLINGS' PATENT, MARCH 15, 1892, FEBRUARY 4, 1896

Model C E

A Very Desirable Combination



Length of Tool closed, $4\frac{1}{2}$ inches
Full Nickeled and Nicely Finished

Three sizes of Screw-drivers and one Knife Blade contained within the handle. A simple and perfect device. By raising the locking bolt and pressing forward the slide to end of slot the blades will swing out. Select the blade wanted, and draw the slide back into the handle, and tool is ready for use.

Price each \$1 50

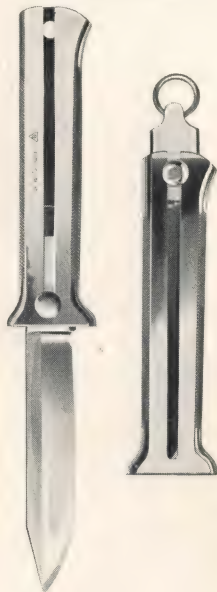
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

BILLINGS' SPORTSMAN'S KNIFE

Model CH

Patented March 15, 1892



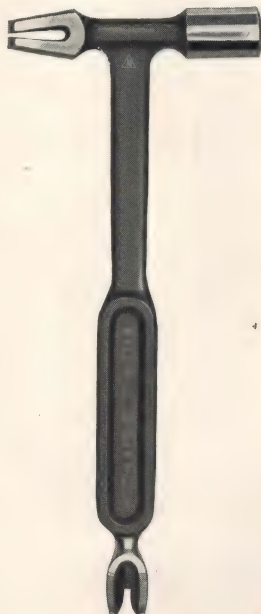
Cut $\frac{1}{2}$ size

The blade is of best tool steel and slides into the handle. The knife is strong in construction and reliable in operation. In using the knife the lock bolt is drawn up, when the blade may be pushed out as shown in cut. The lock bolt is then thrown into engagement with the handle by means of a spiral spring.

Price each \$1 50

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

BILLINGS' MAGNETIC TACK HAMMER AND PULLER



This tool is drop-forged of Bar Steel in one piece. One of the heads is in the form of a Horse Shoe Magnet for picking up the tack and holding it in position for driving. The tool is $7\frac{3}{4}$ inches long.

Price, \$3 60 per dozen.

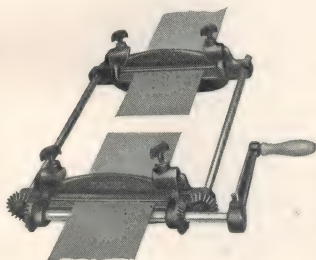
When ordering specify Number, Model and Finish

GARDNER & MILLER'S PATENT BELT CLAMP

Model B R

For Drawing Belts together for the purpose of Lacing Them

This device is simple, but very efficient. The ends of the belt are placed between the two movable jaws, the upper section of each being in the form of a cam, which automatically closes upon the belt as it is drawn together, giving a pressure sufficient to hold it securely, but without injury to the belt.



PRICE LIST MODEL B R

No.	Capacity	Weight	Price	No.
1	8 in.	27 lbs.	\$10 00	1
2	12 in.	45 "	15 00	2
3	16 in.	59 "	18 00	3
4	20 in.	95 "	22 00	4
5	24 in.	107 "	26 00	5
6	28 in.	149 "	30 00	6
7	32 in.	195 "	35 00	7

PRICE LIST OF PARTS

	1 8 in.	2 12 in.	3 16 in.	4 20 in.	5 24 in.	6 28 in.	7 32 in.
Top each	\$2 50	\$2 90	\$3 50	\$4 20	\$4 80	\$5 50	\$6 00
Bottom "	1 85	2 30	2 90	3 30	3 90	4 50	5 00
Cam "	43	55	65	75	90	1 00	1 15
Crank "	40	45	60	70	80	90	1 00
Top Rod "	1 10	1 40	1 70	2 00	2 25	2 50	2 85
Side Screw "	2 65	3 40	4 20	5 00	5 70	6 50	7 20
Cam Screw "	10	14	16	20	22	25	28
Set Screw "	05	05	05	05	07	10	10
Gear "	22	30	35	40	48	50	60
Nut "	05	05	05	05	05	05	10
Key "	11	12	16	20	22	25	30
Handle "	05	05	05	05	05	05	05

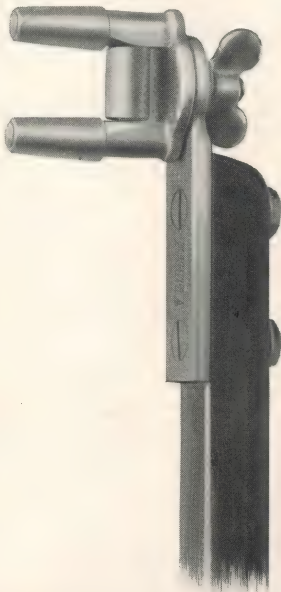
When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. IMPROVED BELT SHIFTER

Model C F

Drop-forged Steel



This Improved Belt Shifter fills a want for a device of the kind that is serviceable and strong. It is provided with three rollers as shown in cut, which can be adjusted at any angle desired, and secured by the thumb nut. The tool is made from steel forgings throughout. Its importance as a "safety first" device should be noted.

PRICE LIST

Complete with bolts, nuts and washers, without stick		Price
No.		
1	For belts up to 3 inches	per dozen \$15 00
2	" " " " 4 "	" " 15 00

When ordering specify Number, Model and Finish

**DROP-FORGED MACHINE WRENCHES
CARRIED IN STOCK**

FINISH

"Unfinished" Wrenches

Wrenches have milled openings, otherwise are in forged state.



"Semi-Finished" Wrenches

Wrenches have opening milled, are filed, case-hardened and heads brightened.



"Finished" Wrenches

Wrenches have openings milled, are polished all over, hardened and treated with our special black finish.



The Billings & Spencer Black finish gives a Wrench a dull black or gun metal effect. It is a rust preventive and obviates the necessity of oiling the tool while in stock and is in keeping with the purpose and use of machinists' tools.

When ordering specify Number, Model and Finish

MILLING

Stock Milling

All wrenches are milled slightly larger than listed in tables to allow for proper clearance and variations.

Special Milling

Whitworth Standard and International Standard furnished to order without extra charge in lots of 100 or more of a size. Special milling to order will be furnished without charge in lots of 100 of a size where we have the tools available for such special milling, and where we have not we will make a special tool charge. When practicable a gauge of some kind should accompany orders.

Special Wrenches

Made to order. Prices will be quoted on receipt of models or drawings and specifications stating quantity and style of finish wanted.

STAMPING

Number of Wrench

Is always stamped on the handle of wrench.

Use of Wrench

The heads of wrenches are stamped to show purpose for which the wrench can be used. Example, a wrench stamped

$\frac{5}{8}$ $\diamond$ C

$\frac{1}{2}$ U. S. S.

shows that the wrench will fit a $\frac{5}{8}$ inch hexagon Cap Screw and a $\frac{1}{2}$ inch U. S. Standard Nut or Bolt.

Special Stamping

Can be furnished to order. If a special design of stamp is required a charge will be made for stamp but no charge will be made for stamping wrenches in quantities.

SPECIAL NOTICE

Referring to previous catalogs, it will be noticed that several decided changes have been made in this issue.

A new system of numbering has been adopted with a view of more clearly defining the different lines of wrenches. For the convenience of customers we have tabulated the old numbers with their corresponding new numbers, and have also listed the new numbers with the old ones which they replace. See pages 172 to 179.

When ordering specify Number, Model and Finish

PRICE LISTS

Have been changed.

NEW DESIGNS

We would call attention to the improved designs of wrenches shown—particularly the larger sizes of Engineers' Wrenches, pages 62 to 65—same being made very much stronger, without unduly increasing the weight. The same applies to the Textile Line, page 77, and the General Service Line, pages 85 and 86.

OLD LINES

A number of the old lines have been dropped for the reasons that the sale of same has become limited and in the lines listed can be found wrenches for all purposes. However, for the convenience of old customers who for any reason must continue the use of wrenches which are not shown in this catalogue but which we have furnished in the past, we shall continue to carry the old lines until such a time as they shall become obsolete.

MISCELLANEOUS WRENCHES

It often happens that for various reasons a customer is not able to use a Standard Wrench. We have a large variety of miscellaneous wrenches and tools for making same. If the desired wrench is not listed, send us blue print, drawing or model with statement of quantity and finish wanted and we will submit samples and prices.

Comparative list of B. & S. OLD and NEW Machine Wrench numbers, page 176.

Comparative list of B. & S. NEW and OLD Machine Wrench numbers, page 172.

Numerical index of B. & S. Machine Wrench numbers, page 171.

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

ENGINEERS' WRENCHES

15° Angle, Single Head



FLARED HANDLE

No.	U.S.S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Head	PRICE			No.
						Unfinished	Semi- Finished	Finished	
1000	1/8	. .	5/16	3	15/64	\$0 09	\$0 14	\$0 22	1000
1001	3/16	. .	13/32	4	1/4	10	15	25	1001
1002	. .	1/4	7/16	4	1/4	10	15	25	1002
1003	1/4	5/16	1/2	5	5/16	12	18	28	1003
1004	. .	3/8	9/16	5	5/16	12	18	28	1004
1005	5/16	. .	19/32	5 1/2	11/32	15	22	32	1005
1006	. .	7/16	5/8	5 1/2	11/32	15	22	32	1006
1007	3/8	. .	11/16	6 1/2	3/8	18	26	38	1007
1008	. .	1/2	3/4	6 1/2	3/8	18	26	38	1008
1009	7/16	. .	25/32	7 1/2	13/32	22	32	45	1009
1010	. .	9/16	13/16	7 1/2	13/32	22	32	45	1010
1011	1/2	5/8	7/8	8	13/32	26	38	54	1011
1012	5/8	. .	21/32	8 1/2	15/32	31	46	65	1012
1013	. .	3/4	1	8 1/2	15/32	31	46	65	1013
1014	3/4	. .	1 1/16	9 1/4	15/32	40	57	82	1014
1015	. .	7/8	1 1/8	11	19/32	55	75	1 05	1015
1016	3/4	1	1 1/4	11	19/32	55	75	1 05	1016
1017	. .	1 1/8	1 3/8	13	21/32	85	1 15	1 52	1017
1018	1/4	. .	1 1/16	13	21/32	85	1 15	1 52	1018

When ordering specify Number, Model and Finish

ENGINEERS' WRENCHES

15° Angle, Single Head



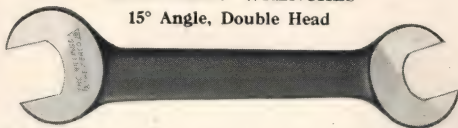
TAPERED HANDLE

No.	U.S.S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Head	PRICE			No.
						Unfinished	Semi- Finished	Finished	
1019		1 ¼	1 ½	15	¾	\$1 20	\$1 60	\$2 10	1019
1020	1	.	1 ⅝	15	¾	1 20	1 60	2 10	1020
1021	1 ⅛	..	1 ⅞	16 ½	1 ⅛	1 65	2 10	2 80	1021
1022	1 ¼	..	2	18	1 ⅛	2 20	2 85	3 70	1022
1023	1 ⅝	..	2 ⅛	20	1 ⅛	2 80	3 65	4 70	1023
1024	1 ½	..	2 ⅜	22	1 ⅛	3 45	4 60	5 80	1024
1025	1 ⅝	..	2 ⅞	24	1 ⅛	4 15	5 60	7 10	1025
1026	1 ¾	..	2 ¾	26	1 ⅛	4 90	6 70	8 50	1026
1027	1 ⅞	..	2 ⅞	28	1 ⅝	4 90	6 70	8 50	1027
1028	2	..	3 ⅛	30	1 ⅝	7 50	10 25	13 00	1028
1029	2 ¼	..	3 ½	34	1 ½	11 50	14 75	18 00	1029
1030	2 ½	..	3 ⅞	38	1 ⅝	17 00	21 00	25 00	1030
1031	2 ¾	..	4 ¼	42	1 ⅝	17 00	21 00	25 00	1031

When ordering specify Number, Model and Finish

ENGINEERS' WRENCHES

15° Angle, Double Head



No.	U.S.S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Head	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1100A			$\frac{1}{4} - \frac{5}{16}$	$3 \frac{1}{2}$	$\frac{3}{16}$	\$0 11	\$0 16	\$0 23	1100A
1100		$\frac{1}{8} - \frac{3}{16}$	$\frac{5}{16} - \frac{3}{8}$	4	$\frac{1}{4}$	12	17	26	1100
1101		$\frac{1}{8} - \frac{3}{16}$	$\frac{5}{16} - \frac{13}{32}$	4	$\frac{1}{4}$	12	17	26	1101
1102		$\frac{1}{8} - \frac{1}{4}$	$\frac{5}{16} - \frac{7}{16}$	4	$\frac{1}{4}$	12	17	26	1102
1103	$\frac{3}{8} - \frac{1}{4}$		$\frac{5}{16} - \frac{1}{2}$	$4 \frac{1}{2}$	$\frac{5}{32}$	14	21	32	1103
1104		$\frac{3}{16} - \frac{1}{4}$	$\frac{3}{8} - \frac{7}{16}$	$4 \frac{1}{2}$	$\frac{5}{32}$	14	21	32	1104
1105		$\frac{3}{16} - \frac{5}{16}$	$\frac{3}{8} - \frac{1}{2}$	$4 \frac{1}{2}$	$\frac{5}{32}$	14	21	32	1105
1106		$\frac{3}{16} - \frac{3}{8}$	$\frac{3}{8} - \frac{3}{16}$	$4 \frac{1}{2}$	$\frac{5}{32}$	14	21	32	1106
1107		$\frac{3}{16} - \frac{1}{4}$	$\frac{13}{32} - \frac{1}{2}$	$4 \frac{1}{2}$	$\frac{5}{32}$	14	21	32	1107
1108		$\frac{3}{16} - \frac{5}{16}$	$\frac{13}{32} - \frac{13}{32}$	5	$\frac{5}{16}$	17	25	38	1108
1109		$\frac{1}{4} - \frac{5}{16}$	$\frac{7}{16} - \frac{1}{2}$	5	$\frac{5}{16}$	17	25	38	1109
1110		$\frac{1}{4} - \frac{3}{8}$	$\frac{7}{16} - \frac{3}{16}$	5	$\frac{5}{16}$	17	25	38	1110
1111		$\frac{3}{16} - \frac{3}{8}$	$\frac{1}{2} - \frac{3}{16}$	5	$\frac{5}{16}$	17	25	38	1111
1112		$\frac{1}{4} - \frac{3}{16}$	$\frac{1}{2} - \frac{13}{32}$	5	$\frac{5}{16}$	17	25	38	1112
1113		$\frac{3}{16} - \frac{7}{16}$	$\frac{1}{2} - \frac{3}{8}$	5	$\frac{5}{16}$	17	25	38	1113
1114		$\frac{1}{4} - \frac{3}{8}$	$\frac{1}{2} - \frac{11}{16}$	6	$\frac{11}{32}$	21	31	46	1114
1115		$\frac{3}{16} - \frac{1}{2}$	$\frac{1}{2} - \frac{3}{4}$	6	$\frac{11}{32}$	21	31	46	1115
1116		$\frac{3}{8} - \frac{7}{16}$	$\frac{3}{8} - \frac{5}{8}$	6	$\frac{11}{32}$	21	31	46	1116
1117		$\frac{3}{8} - \frac{1}{2}$	$\frac{3}{8} - \frac{3}{4}$	6	$\frac{11}{32}$	21	31	46	1117
1118		$\frac{5}{16} - \frac{3}{8}$	$\frac{13}{32} - \frac{11}{16}$	6	$\frac{11}{32}$	21	31	46	1118
1119		$\frac{5}{16} - \frac{1}{16}$	$\frac{13}{32} - \frac{25}{32}$	$6 \frac{3}{4}$	$\frac{3}{8}$	25	37	56	1119
1120		$\frac{7}{16} - \frac{1}{2}$	$\frac{3}{8} - \frac{3}{4}$	$6 \frac{3}{4}$	$\frac{3}{8}$	25	37	56	1120
1121		$\frac{7}{16} - \frac{9}{16}$	$\frac{5}{8} - \frac{13}{16}$	$6 \frac{3}{4}$	$\frac{3}{8}$	25	37	56	1121
1122		$\frac{7}{16} - \frac{5}{8}$	$\frac{5}{8} - \frac{7}{8}$	$6 \frac{3}{4}$	$\frac{3}{8}$	25	37	56	1122
1123		$\frac{3}{8} - \frac{7}{16}$	$\frac{11}{16} - \frac{25}{32}$	$6 \frac{3}{4}$	$\frac{3}{8}$	25	37	56	1123
1124		$\frac{3}{8} - \frac{1}{2}$	$\frac{11}{16} - \frac{7}{8}$	8	$\frac{7}{16}$	30	45	68	1124
1125		$\frac{1}{2} - \frac{9}{16}$	$\frac{3}{4} - \frac{13}{16}$	8	$\frac{7}{16}$	30	45	68	1125
1126		$\frac{1}{2} - \frac{3}{8}$	$\frac{3}{4} - \frac{7}{8}$	8	$\frac{7}{16}$	30	45	68	1126
1127		$\frac{1}{2} - \frac{1}{4}$	$\frac{3}{4} - 1$	8	$\frac{7}{16}$	30	45	68	1127
1128		$\frac{7}{16} - \frac{1}{2}$	$\frac{25}{32} - \frac{7}{8}$	8	$\frac{7}{16}$	30	45	68	1128
1129		$\frac{3}{16} - \frac{9}{16}$	$\frac{25}{32} - \frac{17}{32}$	9	$\frac{15}{32}$	37	55	85	1129
1130		$\frac{9}{16} - \frac{3}{8}$	$\frac{15}{16} - \frac{7}{8}$	9	$\frac{15}{32}$	37	55	85	1130
1131		$\frac{9}{16} - \frac{1}{4}$	$\frac{15}{16} - 1$	9	$\frac{15}{32}$	37	55	85	1131
1132		$\frac{1}{2} - \frac{9}{16}$	$\frac{7}{8} - \frac{25}{32}$	9	$\frac{15}{32}$	37	55	85	1132

When ordering specify Number, Model and Finish

ENGINEERS' WRENCHES—Continued

15° Angle, Double Head

No.	U. S. S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Head	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1133	. . .	$\frac{3}{8}$ - $\frac{3}{4}$	$\frac{3}{8}$ -1	9	$\frac{13}{16}$	\$ 0 37	\$ 0 55	\$ 0 85	1133
1134	$\frac{1}{2}$ - $\frac{5}{8}$	. . .	$\frac{3}{8}$ -1 $\frac{1}{16}$	10	$\frac{13}{16}$	46	68	1 08	1134
1135	. . .	$\frac{3}{8}$ - $\frac{7}{8}$	$\frac{3}{8}$ -1 $\frac{1}{8}$	10	$\frac{13}{16}$	46	68	1 08	1135
1136	$\frac{3}{8}$ - $\frac{5}{8}$	. . .	$\frac{3}{16}$ -1 $\frac{1}{16}$	10	$\frac{13}{16}$	46	68	1 08	1136
1137	$\frac{3}{8}$ - $\frac{3}{4}$	. . .	$\frac{3}{16}$ -1 $\frac{1}{4}$	11 $\frac{1}{2}$	$\frac{13}{16}$	66	96	1 40	1137
1138	. . .	$\frac{3}{4}$ - $\frac{7}{8}$	1 -1 $\frac{1}{8}$	11 $\frac{1}{2}$	$\frac{13}{16}$	66	96	1 40	1138
1139	. . .	$\frac{3}{4}$ -1	1 -1 $\frac{1}{4}$	11 $\frac{1}{2}$	$\frac{13}{16}$	66	96	1 40	1139
1140	$\frac{5}{8}$ - $\frac{3}{4}$	. . .	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	11 $\frac{1}{2}$	$\frac{13}{16}$	66	96	1 40	1140
1141	$\frac{5}{8}$ - $\frac{7}{8}$	. . .	1 $\frac{1}{8}$ -1 $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1141
1142	. . .	$\frac{7}{8}$ -1	1 $\frac{3}{8}$ -1 $\frac{1}{4}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1142
1143	. . .	$\frac{7}{8}$ -1 $\frac{1}{8}$	1 $\frac{3}{8}$ -1 $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1143
1144	. . .	$\frac{7}{8}$ -1 $\frac{1}{4}$	1 $\frac{3}{8}$ -1 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1144
1145	. . .	1 -1 $\frac{1}{8}$	1 $\frac{3}{8}$ -1 $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1145
1146	$\frac{3}{4}$ - $\frac{7}{8}$	. . .	1 $\frac{3}{8}$ -1 $\frac{3}{8}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1146
1147	. . .	1 -1 $\frac{1}{4}$	1 $\frac{3}{8}$ -1 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{13}{16}$	1 00	1 40	1 90	1147
1148	$\frac{3}{4}$ -1	. . .	1 $\frac{3}{4}$ -1 $\frac{5}{8}$	16	$\frac{13}{16}$	1 40	1 90	2 60	1148
1149	. . .	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	1 $\frac{3}{8}$ -1 $\frac{1}{2}$	16	$\frac{13}{16}$	1 40	1 90	2 60	1149
1150	$\frac{7}{8}$ -1	. . .	1 $\frac{3}{8}$ -1 $\frac{5}{8}$	16	$\frac{13}{16}$	1 40	1 90	2 60	1150
1151	$\frac{7}{8}$ -1 $\frac{1}{8}$	. . .	1 $\frac{3}{8}$ -1 $\frac{13}{16}$	18	$\frac{13}{16}$	1 90	2 65	3 50	1151
1152	1	1 $\frac{1}{4}$	1 $\frac{3}{4}$ -1 $\frac{5}{8}$	18	$\frac{13}{16}$	1 90	2 65	3 50	1152
1153	1 -1 $\frac{1}{8}$	. . .	1 $\frac{5}{8}$ -1 $\frac{13}{16}$	18	$\frac{13}{16}$	1 90	2 65	3 50	1153
1154	1 -1 $\frac{1}{4}$	. . .	1 $\frac{5}{8}$ -2	21	$\frac{13}{16}$	2 60	3 60	4 70	1154
1155	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	. . .	1 $\frac{3}{8}$ -2	21	$\frac{13}{16}$	2 60	3 60	4 70	1155
1156	1 $\frac{1}{8}$ -1 $\frac{3}{8}$	. . .	1 $\frac{3}{8}$ -2 $\frac{3}{16}$	23	1 $\frac{3}{8}$	3 80	5 25	6 70	1156
1157	1 $\frac{1}{4}$ -1 $\frac{3}{8}$	. . .	2 -2 $\frac{3}{16}$	23	1 $\frac{3}{8}$	3 80	5 25	6 70	1157
1158	1 $\frac{3}{4}$ -1 $\frac{1}{2}$	. . .	2 -2 $\frac{3}{8}$	24	1 $\frac{3}{8}$	5 20	7 00	8 80	1158
1159	1 $\frac{3}{8}$ -1 $\frac{1}{2}$	. . .	2 $\frac{3}{16}$ -2 $\frac{3}{8}$	24	1 $\frac{3}{8}$	5 20	7 00	8 80	1159
1160	1 $\frac{3}{8}$ -1 $\frac{5}{8}$	. . .	2 $\frac{3}{16}$ -2 $\frac{3}{16}$	26	1 $\frac{3}{4}$	6 75	9 00	11 25	1160
1161	1 $\frac{1}{2}$ -1 $\frac{5}{8}$	. . .	2 $\frac{3}{8}$ -2 $\frac{3}{16}$	26	1 $\frac{3}{4}$	7 40	9 90	12 40	1161
1162	1 $\frac{1}{2}$ -1 $\frac{3}{4}$	. . .	2 $\frac{3}{8}$ -2 $\frac{3}{4}$	27	1 $\frac{3}{4}$	8 35	11 00	13 65	1162
1163	1 $\frac{5}{8}$ -1 $\frac{3}{4}$	. . .	2 $\frac{3}{16}$ -2 $\frac{3}{4}$	27	1 $\frac{3}{4}$	9 00	12 00	15 00	1163
1164	1 $\frac{3}{4}$ -2	. . .	2 $\frac{3}{4}$ -3 $\frac{1}{8}$	32	1 $\frac{1}{2}$	12 00	15 50	19 00	1164
1165	1 $\frac{3}{4}$ -2 $\frac{1}{4}$	. . .	2 $\frac{3}{4}$ -3 $\frac{1}{2}$	34	1 $\frac{1}{2}$	16 00	20 00	24 00	1165
1166	2 -2 $\frac{1}{4}$	. . .	3 $\frac{1}{8}$ -3 $\frac{1}{2}$	36	1 $\frac{1}{2}$	18 50	23 50	28 50	1166

When ordering specify Number, Model and Finish

HEAVY CAP SCREW WRENCHES

15° Angle, Single Head

For Square Head Cap and Set Screws



No.	Sq. Head Cap. Sc. Size	Set Screw Size	Milled Openings	Length	Thickness of Heads	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1200S	.	$\frac{5}{16}$	$\frac{3}{16}$	3 $\frac{1}{2}$	$\frac{3}{16}$	\$0 09	\$0 13	\$0 21	1200S
1201S	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	4	$\frac{1}{4}$	10	14	23	1201S
1202S	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{7}{16}$	4 $\frac{3}{4}$	$\frac{9}{32}$	12	17	27	1202S
1203S	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	4 $\frac{3}{4}$	$\frac{9}{32}$	12	17	27	1203S
1204S	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{9}{16}$	5	$\frac{5}{16}$	17	25	37	1204S
1205S	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	5 $\frac{3}{4}$	$\frac{3}{8}$	21	31	44	1205S
1206S	$\frac{9}{16}$	$1\frac{1}{16}$	$1\frac{1}{16}$	6 $\frac{1}{2}$	$\frac{7}{16}$	26	38	54	1206S
1207S	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	7 $\frac{1}{4}$	$\frac{1}{2}$	32	46	66	1207S
1209S	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{7}{8}$	8	$\frac{9}{16}$	40	57	80	1209S
1210S	.	1	1	9 $\frac{1}{2}$	$\frac{5}{8}$	52	72	1 00	1210S
1211S	$\frac{7}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	11	$\frac{3}{4}$	72	96	1 30	1211S
1212S	1	.	1 $\frac{1}{4}$	12 $\frac{1}{2}$	$\frac{7}{8}$	1 00	1 30	1 70	1212S
1213S	1 $\frac{1}{8}$	.	1 $\frac{3}{8}$	14	$1\frac{1}{16}$	1 35	1 70	2 20	1213S
1214S	1 $\frac{1}{4}$	.	1 $\frac{1}{2}$	15 $\frac{1}{2}$	1 $\frac{1}{16}$	1 70	2 10	2 75	1214S
1215S	1 $\frac{3}{8}$	.	1 $\frac{5}{8}$	17	1 $\frac{3}{8}$	2 10	2 60	3 40	1215S

When ordering specify Number, Model and Finish

HEAVY CAP SCREW WRENCHES

15° Angle, Single Head

For Hexagon Head Cap Screws



No.	Hex. Head Cap. Sc. Size	Milled Openings	Length	Thickness of Head	PRICE			No.
					Unfin- ished	Semi- Finished	Finished	
1204	$\frac{3}{8}$	$\frac{9}{16}$	5	$\frac{3}{16}$	\$0 17	\$0 25	\$0 37	1204
1205	$\frac{7}{16}$	$\frac{9}{8}$	$5\frac{1}{4}$	$\frac{3}{8}$	21	31	44	1205
1207	$\frac{1}{2}$	$\frac{3}{4}$	$6\frac{1}{2}$	$\frac{3}{16}$	26	38	54	1207
1208	$\frac{9}{16}$	$\frac{13}{16}$	$7\frac{1}{4}$	$\frac{1}{2}$	32	46	66	1208
1209	$\frac{5}{8}$	$\frac{7}{8}$	8	$\frac{3}{16}$	40	57	80	1209
1210	$\frac{3}{4}$	1	$9\frac{1}{2}$	$\frac{5}{8}$	52	72	1 00	1210
1211	$\frac{7}{8}$	$1\frac{1}{8}$	11	$\frac{3}{4}$	72	96	1 30	1211
1212	1	$1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{7}{8}$	1 00	1 30	1 70	1212
1213	$1\frac{1}{8}$	$1\frac{3}{8}$	14	$\frac{15}{16}$	1 35	1 70	2 20	1213
1214	$1\frac{1}{4}$	$1\frac{1}{2}$	$15\frac{1}{2}$	$1\frac{1}{16}$	1 70	2 10	2 75	1214
1215	$1\frac{3}{8}$	$1\frac{5}{8}$	17	$1\frac{1}{8}$	2 10	2 60	3 40	1215

When ordering specify Number, Model and Finish

HEAVY CAP SCREW WRENCHES

15° Angle, Double Head

For Square Head Cap and Set Screws



No.	Sq. Head Cap. Sc. Size	Set Screw Size	Milled Openings	Length	Thick- ness of Heads	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1250S	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{1}{8}$	$\frac{3}{16}$ - $\frac{1}{16}$	5	$\frac{1}{16}$	\$0 17	\$0 24	\$0 37	1250S
1251S	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{3}{16}$ - $\frac{1}{2}$	5	$\frac{1}{16}$	17	24	37	1251S
1252S	$\frac{3}{16}$ - $\frac{3}{16}$	$\frac{1}{16}$ - $\frac{1}{2}$	$\frac{1}{16}$ - $\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{1}{16}$	20	30	45	1252S
1253S	$\frac{3}{16}$ - $\frac{1}{16}$	$\frac{1}{16}$ - $\frac{3}{16}$	$\frac{1}{16}$ - $\frac{3}{16}$	5 $\frac{1}{2}$	$\frac{1}{16}$	20	30	45	1253S
1254S	$\frac{3}{16}$ - $\frac{1}{16}$	$\frac{1}{2}$ - $\frac{3}{16}$	$\frac{1}{2}$ - $\frac{3}{16}$	5 $\frac{1}{2}$	$\frac{1}{16}$	20	30	45	1254S
1255S	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{3}{16}$	$\frac{1}{2}$ - $\frac{3}{16}$	6 $\frac{1}{4}$	$\frac{3}{16}$	25	37	54	1255S
1256S	$\frac{1}{16}$ - $\frac{1}{2}$	$\frac{3}{16}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{3}{16}$	6 $\frac{1}{4}$	$\frac{3}{16}$	25	37	54	1256S
1258S	$\frac{1}{2}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{3}{4}$	$\frac{3}{16}$ - $\frac{3}{4}$	7	$\frac{1}{16}$	30	45	68	1258S
1261S	$\frac{3}{16}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{1}{8}$	$\frac{3}{4}$ - $\frac{1}{8}$	8 $\frac{3}{4}$	$\frac{1}{16}$	46	68	1 05	1261S
1262S	$\frac{3}{16}$ - $\frac{1}{8}$	$\frac{3}{4}$ - $\frac{1}{8}$	$\frac{3}{4}$ - $\frac{1}{8}$	11 $\frac{3}{4}$	$\frac{3}{4}$	95	1 25	1 70	1262S
1266S	$\frac{3}{4}$ - $\frac{1}{8}$	$\frac{1}{8}$ - $\frac{1}{8}$	$\frac{3}{8}$ - $\frac{1}{8}$	11 $\frac{3}{4}$	$\frac{3}{4}$	95	1 25	1 70	1266S
1267S	$\frac{3}{4}$ - 1	$\frac{1}{8}$ - $\frac{1}{4}$	$\frac{1}{8}$ - $\frac{1}{4}$	13 $\frac{1}{4}$	$\frac{1}{8}$	1 30	1 65	2 20	1267S
1270S	$\frac{3}{8}$ - 1	1 $\frac{1}{8}$ - $\frac{1}{4}$	1 $\frac{1}{8}$ - $\frac{1}{4}$	13 $\frac{1}{4}$	$\frac{1}{8}$	1 30	1 65	2 20	1270S
1271S	$\frac{1}{8}$ - $\frac{1}{8}$	1 $\frac{1}{8}$ - $\frac{3}{8}$	1 $\frac{1}{8}$ - $\frac{3}{8}$	14 $\frac{3}{4}$	$\frac{1}{16}$	1 70	2 15	2 80	1271S
1272S	1 - 1 $\frac{1}{8}$	1 $\frac{1}{4}$ - $\frac{3}{8}$	1 $\frac{1}{4}$ - $\frac{3}{8}$	14 $\frac{3}{4}$	$\frac{1}{16}$	1 70	2 15	2 80	1272S

When ordering specify Number, Model and Finish

HEAVY CAP SCREW WRENCHES

15° Angle, Double Head

For Hexagon Head Cap Screws



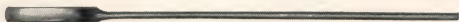
No.	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Heads	PRICE			No.
					Unfin- ished	Semi- Finished	Finished	
1253	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{7}{16}$ - $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{3}{16}$	\$0 20	\$0 30	\$0 45	1253
1254	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{3}{16}$	20	30	45	1254
1255	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{3}{8}$	6 $\frac{1}{4}$	$\frac{3}{8}$	25	37	54	1255
1256	$\frac{3}{8}$ - $\frac{3}{16}$	$\frac{9}{16}$ - $\frac{5}{8}$	6 $\frac{1}{4}$	$\frac{3}{8}$	25	37	54	1256
1257	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{9}{16}$ - $\frac{3}{4}$	7	$\frac{3}{16}$	30	45	68	1257
1258	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{5}{8}$ - $\frac{3}{4}$	7	$\frac{3}{16}$	30	45	68	1258
1259	$\frac{3}{16}$ - $\frac{9}{16}$	$\frac{5}{8}$ - $\frac{13}{16}$	7 $\frac{3}{4}$	$\frac{1}{2}$	37	55	85	1259
1260	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{13}{16}$	7 $\frac{3}{4}$	$\frac{1}{2}$	37	55	85	1260
1261	$\frac{1}{2}$ - $\frac{3}{8}$	$\frac{3}{4}$ - $\frac{7}{8}$	8 $\frac{3}{4}$	$\frac{9}{16}$	46	68	1 05	1261
1263	$\frac{9}{16}$ - $\frac{3}{8}$	$\frac{13}{16}$ - $\frac{7}{8}$	8 $\frac{3}{4}$	$\frac{9}{16}$	46	68	1 05	1263
1264	$\frac{9}{16}$ - $\frac{3}{4}$	$\frac{13}{16}$ - 1	10 $\frac{1}{4}$	$\frac{3}{8}$	65	90	1 30	1264
1265	$\frac{3}{8}$ - $\frac{3}{4}$	$\frac{7}{8}$ - 1	10 $\frac{1}{4}$	$\frac{3}{8}$	65	90	1 30	1265
1266	$\frac{5}{8}$ - $\frac{7}{8}$	$\frac{7}{8}$ - 1 $\frac{1}{8}$	11 $\frac{3}{4}$	$\frac{3}{4}$	95	1 25	1 70	1266
1268	$\frac{3}{4}$ - $\frac{7}{8}$	1 - 1 $\frac{1}{8}$	11 $\frac{3}{4}$	$\frac{3}{4}$	95	1 25	1 70	1268
1269	$\frac{3}{4}$ - 1	1 - 1 $\frac{1}{4}$	13 $\frac{1}{4}$	$\frac{7}{8}$	1 30	1 65	2 20	1269
1270	$\frac{7}{8}$ - 1	1 $\frac{1}{8}$ - 1 $\frac{1}{4}$	13 $\frac{1}{4}$	$\frac{7}{8}$	1 30	1 65	2 20	1270
1271	$\frac{7}{8}$ - 1 $\frac{1}{8}$	1 $\frac{1}{8}$ - 1 $\frac{3}{8}$	14 $\frac{3}{4}$	$\frac{15}{16}$	1 70	2 15	2 80	1271
1272	1 - 1 $\frac{1}{8}$	1 $\frac{1}{4}$ - 1 $\frac{3}{8}$	14 $\frac{3}{4}$	$\frac{15}{16}$	1 70	2 15	2 80	1272
1273	1 - 1 $\frac{1}{4}$	1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	16 $\frac{1}{4}$	1 $\frac{1}{16}$	2 15	2 75	3 50	1273
1274	1 $\frac{1}{8}$ - 1 $\frac{1}{4}$	1 $\frac{3}{8}$ - 1 $\frac{1}{2}$	16 $\frac{1}{4}$	1 $\frac{1}{16}$	2 15	2 75	3 50	1274

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THIN HEAD CHECK-NUT WRENCHES

15° Angle Single Head

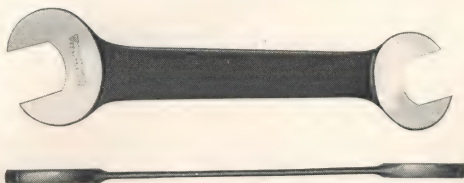


No.	U. S. Standard Bolt Size	Milled Opening	Length	Thickness of Head	PRICE			No.
					Unfin- ished	Semi- Finished	Finished	
1300	$\frac{1}{4}$	$\frac{1}{2}$	4	$\frac{3}{32}$	\$0 12	\$0 18	\$0 25	1300
1301	$\frac{5}{16}$	$\frac{19}{32}$	$4 \frac{1}{2}$	$\frac{11}{64}$	15	22	32	1301
1302	$\frac{3}{8}$	$\frac{11}{16}$	$5 \frac{1}{2}$	$\frac{3}{16}$	18	26	38	1302
1303	$\frac{7}{16}$	$\frac{25}{32}$	$6 \frac{1}{4}$	$\frac{7}{32}$	22	32	45	1303
1304	$\frac{1}{2}$	$\frac{7}{8}$	7	$\frac{1}{4}$	26	38	54	1304
1305	$\frac{9}{16}$	$\frac{31}{32}$	8	$\frac{9}{32}$	31	45	64	1305
1306	$\frac{5}{8}$	$1 \frac{1}{16}$	9	$\frac{5}{16}$	38	54	76	1306
1307	$\frac{3}{4}$	$1 \frac{1}{4}$	10	$\frac{3}{8}$	48	68	94	1307
1308	$\frac{7}{8}$	$1 \frac{7}{16}$	$11 \frac{1}{2}$	$\frac{7}{16}$	68	92	1 25	1308
1309	1	$1 \frac{5}{8}$	13	$\frac{1}{2}$	1 00	1 30	1 70	1309

When ordering specify Number, Model and Finish

THIN HEAD CHECK-NUT WRENCHES

15° Angle Double Head



No.	U. S. Standard Bolt Size	Milled Opening	Length	Thickness of Heads	PRICE			No.
					Unfin- ished	Semi- Finished	Finished	
1350	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{5}{32}$	\$0 17	\$0 25	\$0 38	1350
1351	$\frac{3}{16}$ - $\frac{5}{16}$	$\frac{13}{32}$ - $\frac{19}{32}$	4 $\frac{1}{2}$	$\frac{5}{32}$	17	25	38	1351
1352	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{2}$ - $\frac{19}{32}$	4 $\frac{1}{2}$	$\frac{5}{32}$	17	25	38	1352
1353	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{11}{16}$	5 $\frac{1}{2}$	$\frac{3}{16}$	22	32	48	1353
1354	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{19}{32}$ - $\frac{11}{16}$	5 $\frac{1}{2}$	$\frac{3}{16}$	22	32	48	1354
1355	$\frac{3}{16}$ - $\frac{7}{16}$	$\frac{19}{32}$ - $\frac{25}{32}$	5 $\frac{1}{2}$	$\frac{3}{16}$	22	32	48	1355
1356	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{11}{16}$ - $\frac{25}{32}$	7	$\frac{7}{32}$	28	40	60	1356
1357	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{11}{16}$ - $\frac{7}{8}$	7	$\frac{7}{32}$	28	40	60	1357
1358	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{25}{32}$ - $\frac{7}{8}$	7	$\frac{7}{32}$	28	40	60	1358
1359	$\frac{7}{16}$ - $\frac{9}{16}$	$\frac{25}{32}$ - $\frac{31}{32}$	8 $\frac{1}{2}$	$\frac{1}{4}$	40	56	80	1359
1360	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{7}{8}$ - $\frac{31}{32}$	8 $\frac{1}{2}$	$\frac{1}{4}$	40	56	80	1360
1361	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{7}{8}$ - $\frac{1}{16}$	8 $\frac{1}{2}$	$\frac{1}{4}$	40	56	80	1361
1362	$\frac{9}{16}$ - $\frac{5}{8}$	$\frac{31}{32}$ - $\frac{1}{16}$	10 $\frac{1}{2}$	$\frac{3}{32}$	60	84	1 15	1362
1363	$\frac{9}{16}$ - $\frac{3}{4}$	$\frac{31}{32}$ - $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{3}{32}$	60	84	1 15	1363
1364	$\frac{5}{8}$ - $\frac{3}{4}$	1 $\frac{1}{16}$ - $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{3}{32}$	60	84	1 15	1364
1365	$\frac{5}{8}$ - $\frac{7}{8}$	1 $\frac{1}{16}$ - $\frac{7}{16}$	12 $\frac{1}{2}$	$\frac{13}{32}$	1 00	1 30	1 75	1365
1366	$\frac{3}{4}$ - $\frac{7}{8}$	1 $\frac{1}{4}$ - $\frac{7}{16}$	12 $\frac{1}{2}$	$\frac{13}{32}$	1 00	1 30	1 75	1366
1367	$\frac{3}{4}$ - 1	1 $\frac{1}{4}$ - $\frac{5}{8}$	12 $\frac{1}{2}$	$\frac{13}{32}$	1 00	1 30	1 75	1367

When ordering specify Number, Model and Finish

22½° ANGLE DOUBLE HEAD "S" WRENCHES



No.	U. S. S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thick- ness of Head	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1400	...	⅜-⅜	⅜-⅜	4	⅜	\$0 15	\$0 22	\$0 32	1400
1401	⅜-⅜	...	⅜-⅜	4	⅜	15	22	32	1401
1402	...	⅜-⅜	⅜-⅜	4	⅜	15	22	32	1402
1403	⅜-⅜	...	⅜-⅜	4	⅜	15	22	32	1403
1404	...	⅜-⅜	⅜-⅜	4	⅜	15	22	32	1404
1405	...	⅜-⅜	⅜-⅜	4	⅜	15	22	32	1405
1406	...	⅜-⅜	⅜-⅜	4	⅜	15	22	32	1406
1407	⅜-⅜	...	⅜-⅜	4	⅜	15	22	32	1407
1408	⅜-⅜	...	⅜-⅜	5	⅜	20	29	42	1408
1409	...	⅜-⅜	⅜-⅜	5	⅜	20	29	42	1409
1410	...	⅜-⅜	⅜-⅜	5	⅜	20	29	42	1410
1411	...	⅜-⅜	⅜-⅜	5	⅜	20	29	42	1411
1412	⅜-⅜	...	⅜-⅜	5	⅜	20	29	42	1412
1413	...	⅜-⅜	⅜-⅜	5	⅜	20	29	42	1413
1414	⅜-⅜	...	⅜-⅜	5	⅜	20	29	42	1414
1415	...	⅜-⅜	⅜-⅜	5	⅜	20	29	42	1415
1416	...	⅜-⅜	⅜-⅜	6 ¼	⅜	27	39	56	1416
1417	...	⅜-⅜	⅜-⅜	6 ¼	⅜	27	39	56	1417
1418	⅜-⅜	...	⅜-⅜	6 ¼	⅜	27	39	56	1418
1419	⅜-⅜	...	⅜-⅜	6 ¼	⅜	27	39	56	1419
1420	...	⅜-⅜	⅜-⅜	6 ¼	⅜	27	39	56	1420
1421	...	⅜-⅜	⅜-⅜	6 ¼	⅜	27	39	56	1421
1422	...	⅜-⅜	⅜-⅜	6 ¼	⅜	27	39	56	1422
1423	⅜-⅜	...	⅜-⅜	6 ¼	⅜	27	39	56	1423
1424	⅜-⅜	...	⅜-⅜	7 ½	⅜	37	53	75	1424
1425	...	⅜-⅜	⅜-⅜	7 ½	⅜	37	53	75	1425
1426	...	⅜-⅜	⅜-⅜	7 ½	⅜	37	53	75	1426
1427	...	⅜-⅜	⅜-⅜	7 ½	⅜	37	53	75	1427
1428	⅜-⅜	...	⅜-⅜	7 ½	⅜	37	53	75	1428
1429	⅜-⅜	...	⅜-⅜	7 ½	⅜	37	53	75	1429
1430	...	⅜-⅜	⅜-⅜	7 ½	⅜	37	53	75	1430
1431	...	⅜-⅜	⅜-⅜	9	⅜	50	72	1 00	1431
1432	⅜-⅜	...	⅜-⅜	9	⅜	50	72	1 00	1432
1433	...	⅜-⅜	⅜-⅜	9	⅜	50	72	1 00	1433

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

22½° ANGLE DOUBLE HEAD "S" WRENCHES—Continued

No.	U. S. S. Bolt Size	Hex. Head Cap. Sc. Size	Milled Opening	Length	Thick- ness of Head	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1434	½- ⅝		⅞-1 ⅛	9	⅝	\$0 50	\$0 72	\$1 00	1434
1435		⅝- ⅞	⅞-1 ⅛	9	⅝	50	72	1 00	1435
1436	⅝- ⅝		31/32-1 ⅛	9	⅝	50	72	1 00	1436
1437	⅝- ¾		31/32-1 ¼	10 ½	⅝	74	1 00	1 35	1437
1438		¾- ⅞	1 -1 ⅛	10 ½	⅝	74	1 00	1 35	1438
1439		¾-1	1 -1 ¼	10 ½	⅝	74	1 00	1 35	1439
1440	⅝- ¾		1 ⅛-1 ¼	10 ½	⅝	74	1 00	1 35	1440
1441	⅝- ⅞		1 ⅛-1 ⅜	10 ½	⅝	74	1 00	1 35	1441
1442		⅞-1	1 ⅛-1 ¼	10 ½	⅝	74	1 00	1 35	1442
1443		⅞-1 ⅛	1 ⅛-1 ⅜	10 ½	⅝	74	1 00	1 35	1443
1444		1 -1 ⅛	1 ¼-1 ⅜	12	⅝	1 10	1 45	1 90	1444
1445	¾- ⅞		1 ¼-1 ⅜	12	⅝	1 10	1 45	1 90	1445
1446		1 -1 ¼	1 ¼-1 ½	12	⅝	1 10	1 45	1 90	1446
1447	¾-1		1 ¼-1 ⅝	12	11/16	1 10	1 45	1 90	1447
1448		1 ⅛-1 ¼	1 ⅜-1 ½	12	11/16	1 10	1 45	1 90	1448
1449	⅞-1		1 ⅜-1 ⅝	12	11/16	1 10	1 45	1 90	1449
1450	⅞-1 ⅛		1 ⅜-1 11/16	14	11/16	1 90	2 50	3 20	1450
1451	1 -1 ⅛		1 ⅝-1 11/16	14	11/16	1 90	2 50	3 20	1451
1452	1 -1 ¼		1 ⅝-2	14	11/16	1 90	2 50	3 20	1452
1453	1 ⅛-1 ¼		1 11/16-2	14	11/16	1 90	2 50	3 20	1453

When ordering specify Number, Model and Finish

22½° ANGLE DOUBLE HEAD "S" WRENCHES Square Openings



No.	Sq. Head Cap. Sc. Size	Set Screw Size	Milled Opening	Length	Thick- ness of Heads	PRICE			No.
						Unfin- ished	Semi- Finished	Finished	
1400S		¼- 5/16	¼- 5/16	4	3/32	\$0 15	\$0 22	\$0 32	1400S
1401S		¼- 3/8	¼- 3/8	4	3/32	15	22	32	1401S
1403S		5/16- 3/8	5/16- 3/8	4	¼	15	22	32	1403S
1404S		5/16- 7/16	5/16- 7/16	4	¼	15	22	32	1404S
1408S	¼- 5/16	3/8- 7/16	3/8- 7/16	5	5/16	20	29	42	1408S
1409S	¼- 3/8	3/8- 1/2	3/8- 1/2	5	5/16	20	29	42	1409S
1411S	5/16- 3/8	7/16- 1/2	7/16- 1/2	5	5/16	20	29	42	1411S
1412S	5/16- 7/16	7/16- 9/16	7/16- 9/16	5	5/16	20	29	42	1412S
1416S	3/8- 7/16	1/2- 9/16	1/2- 9/16	6 ¼	3/8	27	39	56	1416S
1417S	3/8- 1/2	1/2- 5/8	1/2- 5/8	6 ¼	3/8	27	39	56	1417S
1420S	7/16- 1/2	9/16- 5/8	9/16- 5/8	6 ¼	3/8	27	39	56	1420S
1421S	7/16- 9/16	9/16- 11/16	9/16- 11/16	6 ¼	3/8	27	39	56	1421S
1424S		9/16- 3/4	9/16- 3/4	7 ½	7/16	37	53	75	1424S
1425S	1/2- 9/16	5/8- 11/16	5/8- 11/16	7 ½	7/16	37	53	75	1425S
1426S	1/2- 3/8	5/8- 3/4	5/8- 3/4	7 ½	7/16	37	53	75	1426S
1427S		5/8- 7/8	5/8- 7/8	7 ½	7/16	37	53	75	1427S
1428S	9/16- 5/8	11/16- 3/4	11/16- 3/4	7 ½	7/16	37	53	75	1428S
1429S	9/16- 3/4	11/16- 7/8	11/16- 7/8	7 ½	7/16	37	53	75	1429S
1434S	5/8- 3/4	3/4- 7/8	3/4- 7/8	9	9/16	50	72	1 00	1434S
1435S		3/4-1	3/4-1	9	9/16	50	72	1 00	1435S
1436S		3/8-1	3/8-1	9	9/16	50	72	1 00	1436S
1437S	5/8- 7/8	3/4-1 1/8	3/4-1 1/8	10 ½	9/16	74	1 00	1 35	1437S
1438S	3/4- 7/8	7/8-1 1/8	7/8-1 1/8	10 ½	9/16	74	1 00	1 35	1438S
1439S	3/4-1	7/8-1 1/4	7/8-1 1/4	10 ½	9/16	74	1 00	1 35	1439S
1441S		1 -1 1/8	1 -1 1/8	10 ½	9/16	74	1 00	1 35	1441S
1442S		1 -1 1/4	1 -1 1/4	10 ½	9/16	74	1 00	1 35	1442S
1444S	7/8-1	1 1/8-1 1/4	1 1/8-1 1/4	12	5/8	1 10	1 45	1 90	1444S
1445S	7/8-1 1/8		1 1/8-1 3/8	12	5/8	1 10	1 45	1 90	1445S
1447S	1-1 1/8		1 1/4-1 3/8	12	11/16	1 10	1 45	1 90	1447S
1450S	1 -1 1/4		1 1/4-1 1/2	14	11/16	1 90	2 50	3 20	1450S
1451S	1 1/8-1 1/4		1 3/8-1 1/2	14	11/16	1 90	2 50	3 20	1451S

SET SCREW WRENCHES

22½° Angle, Single Head



No.	Milled Opening for Set Screw Size	Length	Thickness of Heads	PRICE			No.
				Unfinished	Semi- Finished	Finished	
1500	⅜	3	⅜	\$0 10	\$0 14	\$0 23	1500
1501	¼	3 ¾	¼	12	17	27	1501
1502	⅜	4 ½	⅜	14	21	31	1502
1503	⅝	5	11/16	17	25	37	1503
1504	⅜	6	⅜	21	31	45	1504
1505	½	6 ¾	⅜	26	38	54	1505
1506	⅜	7 ½	½	31	46	65	1506
1507	⅝	8 ¼	⅜	38	55	80	1507
1508	¾	10	⅝	48	68	98	1508
1509	⅝	10 ½	11/16	60	84	1 20	1509
1510	1	12	¾	80	1 10	1 48	1510
1511	1 ⅜	12 ½	13/16	1 10	1 40	1 80	1511

When ordering specify Number, Model and Finish

SET SCREW WRENCHES

22½° Angle, Double Head

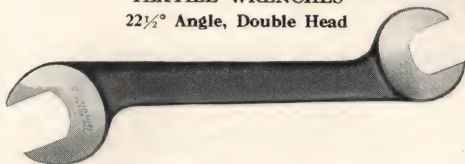


No	Milled Opening for Set Screw Size	Length	Thickness of Heads	PRICE			No.
				Unfinished	Semi-Finished	Finished	
1523	⅜- ¼	3 ½	⅜	\$0 14	\$0 20	\$0 30	1523
1524	⅜- ⅝	4	¼	16	24	35	1524
1525	¼- ⅝	4	¼	16	24	35	1525
1526	¼- ⅜	5	⅝	19	29	42	1526
1527	⅝- ⅜	5	⅝	19	29	42	1527
1528	⅝- ⅞	6	1 ½	24	35	52	1528
1529	⅝- ⅞	6	1 ½	24	35	52	1529
1530	⅝- 1 ½	6 ¾	⅝	30	45	66	1530
1531	⅞- 1 ½	6 ¾	⅝	30	45	66	1531
1532	⅞- ⅞	7 ½	⅞	36	54	80	1532
1533	1 ½- ⅞	7 ½	⅞	36	54	80	1533
1534	1 ½- ⅞	8 ½	1 ½	44	65	96	1534
1535	⅞- ⅞	8 ½	1 ½	44	65	96	1535
1536	⅞- ¾	10	⅞	56	80	1 15	1536
1537	⅞- ¾	10	⅞	56	80	1 15	1537
1538	⅞- ⅞	11 ½	⅞	72	1 00	1 40	1538
1539	¾- ⅞	11 ½	⅞	72	1 00	1 40	1539
1540	¾-1	12 ½	1 ½	98	1 30	1 75	1540
1541	¾-1	12 ½	1 ½	98	1 30	1 75	1541
1542	1 ⅞-1 ½	14	1 ½	1 35	1 75	2 25	1542
1543	1 -1 ½	14	1 ½	1 35	1 75	2 25	1543

When ordering specify Number, Model and Finish

TEXTILE WRENCHES

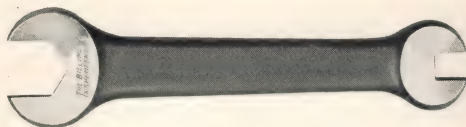
22½° Angle, Double Head



No.	U. S. Standard Bolt Size	Hexagon Head Cap. Sc. Size	Square Head Cap. Sc. Size	Milled Opening	Length	Thickness of Heads	PRICE			No.
							Unfinished	Semi-Finished	Finished	
1550	...	...	...	¾-¾	3 ½	¾	\$0 12	\$0 17	\$0 28	1550
1551	...	...	...	¾-¾	3 ½	¾	12	17	28	1551
1552	½-¾	...	...	¾-½	4 ¾	¼	17	25	38	1552
1553	...	¾-¾	¼-¾	¾-¾	4 ¾	¼	17	25	38	1553
1554	...	¾-¾	¼-¾	¾-¾	4 ¾	¼	17	25	38	1554
1555	¾-¾	...	...	¾-¾	4 ¾	¼	17	25	38	1555
1556	¾-¾	...	...	¾-¾	4 ¾	¼	17	25	38	1556
1557	...	¼-¾	¾-¾	¾-¾	4 ¾	¼	17	25	38	1557
1558	...	¾-¾	¾-¾	¾-¾	5 ¾	¾	21	31	46	1558
1559	¼-¾	...	¾-¾	¾-¾	5 ¾	¾	21	31	46	1559
1560	...	¾-¾	¾-¾	¾-¾	5 ¾	¾	21	31	46	1560
1561	¼-¾	...	¾-¾	¾-¾	5 ¾	¾	21	31	46	1561
1562	...	¾-¾	¾-¾	¾-¾	5 ¾	¾	21	31	46	1562
1563	...	...	¾-¾	¾-¾	5 ¾	¾	21	31	46	1563
1564	¾-¾	...	...	¾-¾	5 ¾	¾	21	31	46	1564
1565	¾-¾	...	...	¾-¾	7	¾	27	40	60	1565
1566	¾-¾	...	...	¾-¾	7	¾	27	40	60	1566
1567	¾-¾	...	¾-¾	¾-¾	7	¾	27	40	60	1567
1568	...	¾-¾	¾-¾	¾-¾	7	¾	27	40	60	1568
1569	...	¾-¾	¾-¾	¾-¾	7	¾	27	40	60	1569
1570	...	¾-¾	...	¾-1	8 ¼	¾	36	53	78	1570
1571	¾-¾	...	...	¾-1	8 ¼	¾	36	53	78	1571
1572	¾-¾	...	...	¾-1	8 ¼	¾	36	53	78	1572
1573	...	¾-¾	...	¾-1	8 ¼	¾	36	53	78	1573
1574	¾-¾	...	...	¾-1	8 ¼	¾	36	53	78	1574
1575	...	¾-¾	...	¾-1	9 ½	¾	50	72	1 05	1575
1576	¾-¾	...	...	¾-1	9 ½	¾	50	72	1 05	1576
1577	...	¾-¾	¾-¾	¾-1	9 ½	¾	50	72	1 05	1577
1578	¾-¾	...	...	¾-1	9 ½	¾	50	72	1 05	1578
1579	¾-¾	...	...	¾-1	9 ½	¾	50	72	1 05	1579
1580	¾-¾	...	...	1 ¼-1 ¼	11	½	68	96	1 40	1580
1581	¾-¾	...	...	1 ¼-1 ¼	11	½	68	96	1 40	1581
1582	...	¾-1	¾-1	1 ¼-1 ¼	11	½	68	96	1 40	1582
1583	¾-¾	...	...	1 ¼-1 ¼	11	½	68	96	1 40	1583

When ordering specify Number, Model and Finish

DOUBLE HEAD COMBINATION SET SCREW AND NUT WRENCHES

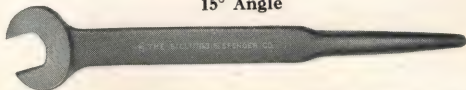


No.	Large Head for U. S. S. Bolt Size	Small Head for Set. Sc. Size	Milled Opening Large Head	Milled Opening Small Head	Extreme Length	Thickness of Heads	PRICE			No.
							Unfinished	Semi-Finished	Finished	
1625	1/4	3/8	1/2	3/8	5 1/2	3/8	\$0 30	\$0 43	\$0 63	1625
1626	3/8	1/2	13/16	1/2	5 1/2	3/8	30	43	63	1626
1627	3/8	3/8	11/16	3/8	6 1/2	3/16	36	52	75	1627
1628	3/8	3/8	11/16	3/8	6 1/2	3/16	36	52	75	1628
1629	3/8	1/2	11/16	1/2	6 1/2	3/16	36	52	75	1629
1630	1/2	3/8	23/32	3/8	6 1/2	3/16	36	52	75	1630
1631	1/2	3/8	23/32	3/8	6 1/2	3/16	36	52	75	1631
1632	1/2	1/2	23/32	1/2	6 1/2	3/16	36	52	75	1632
1633	1/2	3/8	3/4	3/8	7 1/2	1/2	45	64	92	1633
1634	1/2	1/2	3/4	1/2	7 1/2	1/2	45	64	92	1634
1635	1/2	3/8	3/4	3/8	7 1/2	1/2	45	64	92	1635
1636	1/2	3/8	3/4	3/8	7 1/2	1/2	45	64	92	1636
1637	3/4	1/2	31/32	1/2	7 1/2	1/2	45	64	92	1637
1638	3/4	1/2	31/32	1/2	7 1/2	1/2	45	64	92	1638
1639	3/4	3/8	31/32	3/8	7 1/2	1/2	45	64	92	1639
1640	3/4	3/8	31/32	3/8	7 1/2	1/2	45	64	92	1640
1641	3/4	3/8	1 1/16	3/8	8 1/2	3/8	60	85	1 20	1641
1642	3/4	3/8	1 1/16	3/8	8 1/2	3/8	60	85	1 20	1642
1643	3/4	3/4	1 1/16	3/4	8 1/2	3/8	60	85	1 20	1643
1644	3/4	3/4	1 1/4	3/4	10	3/8	90	1 25	1 70	1644
1645	3/4	3/8	1 1/4	3/8	10	3/8	90	1 25	1 70	1645
1646	3/4	1	1 1/4	1	10	3/8	90	1 25	1 70	1646
1647	3/8	3/4	1 3/8	3/4	10	3/8	90	1 25	1 70	1647
1648	3/8	3/8	1 3/8	3/8	10	3/8	90	1 25	1 70	1648
1649	1	1	1 3/8	1	10	3/8	90	1 25	1 70	1649

When ordering specify Number, Model and Finish

CONSTRUCTION WRENCHES

15° Angle



"Semi-Finished" are milled, heads case-hardened, but not ground.

No.	U. S. S. Bolt Size	Milled Opening	Length	Thickness of Head	PRICE		No.
					Unfin- ished	Semi- Finished	
1675	$\frac{3}{8}$	$\frac{1}{16}$	$9\frac{1}{2}$	$\frac{3}{16}$	\$0 35	\$0 45	1675
1676	$\frac{3}{16}$	$\frac{3}{32}$	$9\frac{1}{2}$	$\frac{3}{16}$	35	45	1676
1677	$\frac{1}{2}$	$\frac{7}{16}$	$11\frac{3}{4}$	$\frac{1}{2}$	45	58	1677
1678	$\frac{5}{16}$	$\frac{3}{12}$	$11\frac{3}{4}$	$\frac{1}{2}$	45	58	1678
1679	$\frac{5}{8}$	$1\frac{1}{16}$	$13\frac{1}{2}$	$\frac{5}{16}$	62	80	1679
1680	$\frac{3}{4}$	$1\frac{1}{4}$	$15\frac{1}{2}$	$\frac{3}{8}$	86	1 10	1680
1681	$\frac{7}{8}$	$1\frac{3}{16}$	$17\frac{1}{2}$	$\frac{1}{16}$	1 18	1 50	1681
1682	1	$1\frac{5}{8}$	19	$\frac{3}{4}$	1 60	2 10	1682

STRUCTURAL WRENCHES

Straight Opening and Offset Head



"Semi-Finished" are milled, heads case-hardened, but not ground.

No.	U. S. S. Bolt Size	Openings	Length	Thickness of Head	Handle Offset	PRICE		No.
						Unfin- ished	Semi- Finished	
1700	$\frac{1}{4}$	$\frac{1}{16}$	8	$\frac{3}{8}$	$\frac{1}{16}$	\$0 33	\$0 40	1700
1701	$\frac{5}{16}$	$\frac{3}{8}$	8	$\frac{3}{8}$	$\frac{1}{16}$	33	40	1701
1702	$\frac{3}{8}$	$\frac{3}{16}$	$9\frac{1}{2}$	$\frac{7}{16}$	$\frac{7}{8}$	40	52	1702
1703	$\frac{1}{2}$	$\frac{1}{16}$	$9\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{8}$	40	52	1703
1704	$\frac{1}{2}$	$\frac{3}{16}$	$11\frac{3}{4}$	$\frac{1}{2}$	1	52	70	1704
1705	$\frac{5}{16}$	1	$11\frac{3}{4}$	$\frac{1}{2}$	1	52	70	1705
1706	$\frac{3}{8}$	$1\frac{3}{16}$	$13\frac{1}{2}$	$\frac{3}{8}$	$1\frac{1}{8}$	74	98	1706
1707	$\frac{3}{4}$	$1\frac{1}{16}$	$15\frac{1}{2}$	$\frac{1}{16}$	$1\frac{1}{4}$	1 02	1 34	1707
1708	$\frac{7}{8}$	$1\frac{1}{2}$	17	$\frac{3}{4}$	$1\frac{3}{16}$	1 40	1 80	1708
1709	1	$1\frac{1}{16}$	19	$\frac{1}{16}$	$1\frac{3}{8}$	1 90	2 50	1709

When ordering specify Number, Model and Finish

LONG ROUND HANDLE WRENCHES



"Semi-finished," are milled, heads case-hardened, but not ground.

No.	U. S. S. Bolt Size	Milled Opening	Length	Thickness of Head	PRICE		No.
					Unfin- ished	Semi- Finished	
1725	$\frac{3}{4}$	$1\frac{5}{16}$	24	$\frac{3}{4}$	\$1 10	\$1 60	1725
1726	.	$1\frac{3}{8}$	24	$\frac{3}{4}$	1 10	1 60	1726
1727	$\frac{1}{2}$	$1\frac{1}{2}$	27	$\frac{3}{4}$	1 50	2 10	1727
1728	.	$1\frac{9}{16}$	27	$\frac{3}{4}$	1 50	2 10	1728
1729	1	$1\frac{11}{16}$	27	$\frac{3}{4}$	1 50	2 10	1729
1730	.	$1\frac{13}{16}$	30	$\frac{3}{4}$	3 00	3 80	1730
1731	$1\frac{1}{8}$	$1\frac{7}{8}$	30	$\frac{3}{4}$	3 00	3 80	1731
1732	.	$1\frac{15}{16}$	30	$\frac{3}{4}$	3 00	3 80	1732

LONG FLAT HANDLE WRENCHES

Single Head



No.	Diameter of Nuts	Milled Opening	Length	Thickness of Head	Price Unfinished	No.
1750	$1\frac{5}{16}$	$1\frac{1}{4}$	23	$\frac{3}{4}$	\$1 75	1750
1751	$1\frac{1}{4}$	$1\frac{5}{16}$	23	$\frac{3}{4}$	1 75	1751
1752	$1\frac{3}{8}$	$1\frac{1}{8}$	23	$\frac{3}{4}$	1 75	1752
1753	$1\frac{1}{2}$	$1\frac{9}{16}$	23	$\frac{3}{4}$	2 00	1753
1754	$1\frac{5}{8}$	$1\frac{11}{16}$	23	$\frac{3}{4}$	2 00	1754

Double Head

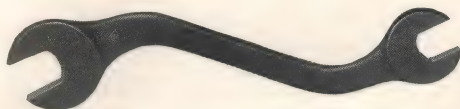


No.	Diameter of Nuts	Milled Opening	Length	Thickness of Heads	Price Unfinished	No.
1775	$1\frac{5}{16}$ - $1\frac{1}{4}$	$1\frac{1}{4}$ - $1\frac{5}{16}$	24	$\frac{3}{4}$	\$3 00	1775
1776	$1\frac{1}{4}$ - $1\frac{3}{8}$	$1\frac{5}{16}$ - $1\frac{1}{8}$	24	$\frac{3}{4}$	3 00	1776
1777	$1\frac{1}{4}$ - $1\frac{1}{2}$	$1\frac{9}{16}$ - $1\frac{1}{4}$	24	$\frac{3}{4}$	3 25	1777
1778	$1\frac{3}{8}$ - $1\frac{1}{2}$	$1\frac{11}{16}$ - $1\frac{3}{8}$	24	$\frac{3}{4}$	3 25	1778

When ordering specify Number, Model and Finish

CAR WRENCHES

22½° Angle, Double Head



“Semi-Finished” are milled, heads case-hardened, but not ground.

No.	U. S. S. Bolt Size	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Unfin- ished	Semi- Finished	
1800	⅜- ½	23 ³¹ / ₃₂ - 29 ³¹ / ₃₂	12	⅜	\$0 55	\$0 75	1800
1801	½- ⅝	15 ¹⁵ / ₁₆ -1 ⅛	19	½	95	1 25	1801
1802	½- ¾	15 ¹⁵ / ₁₆ -1 ⅝	20	½	1 15	1 55	1802
1803	⅝- ¾	1 ⅛-1 ⅝	20	⅝	1 15	1 55	1803
1804	⅝- ⅞	1 ⅜-1 ½	21	⅝	1 35	1 85	1804
1805	¾- ⅞	1 ⅝-1 ½	21	⅝	1 35	1 85	1805
1806	¾-1	1 ⅝-1 11 ¹¹ / ₁₆	22	⅝	1 65	2 25	1806
1807	⅞-1	1 ⅝-1 11 ¹¹ / ₁₆	22	⅝	1 65	2 25	1807
1808	¾-1 ⅛	1 ½-1 ⅞	23	⅝	1 95	2 65	1808
1809	1 -1 ⅝	1 11 ¹¹ / ₁₆ -1 ⅞	23	⅝	1 95	2 65	1809
1810	1 -1 ¾	1 11 ¹¹ / ₁₆ -2 ⅛	24	⅝	2 25	3 15	1810
1811	1 ⅛-1 ¾	1 ⅞-2 ⅛	24	⅝	2 25	3 15	1811
1812	1 ⅛-1 ½	1 ⅞-2 ⅛	25	¾	3 40	4 50	1812
1813	1 ¼-1 ½	2 ⅛-2 ⅛	25	¾	3 40	4 50	1813

When ordering specify Number, Model and Finish

DOUBLE-HEAD TOOL-POST WRENCHES

For U. S. Standard Nuts and Set Screws



No.	OPEN END FOR U. S. STANDARD NUT		Closed End for Set Screw	Length	Thickness of Heads	PRICE			No.
	Bolt Size	Milled Opening				Unfin- ished	Semi- Finished	Finished	
1825	$\frac{3}{8}$	$1\frac{1}{16}$	$\frac{3}{8}$	$6\frac{1}{2}$	$\frac{5}{16}$	\$0 48	\$0 66	\$0 96	1825
1826	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{16}$	7	$\frac{5}{8}$	52	72	1 04	1826
1827	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	7	$\frac{5}{8}$	52	72	1 04	1827
1828	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	7	$\frac{5}{8}$	52	72	1 04	1828
1829	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{8}$	7	$\frac{5}{8}$	52	72	1 04	1829
1830	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{5}{8}$	$7\frac{1}{2}$	$\frac{5}{8}$	60	82	1 16	1830
1831	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{4}$	8	$1\frac{1}{16}$	72	97	1 34	1831
1832	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{3}{4}$	9	$\frac{3}{4}$	90	1 20	1 60	1832
1833	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{1}{2}$	9	$\frac{3}{4}$	90	1 20	1 60	1833
1834	$\frac{3}{4}$	$1\frac{1}{4}$	1	10	$\frac{7}{8}$	1 25	1 60	2 00	1834
1835	$\frac{7}{8}$	$1\frac{3}{16}$	$\frac{7}{8}$	10	$\frac{7}{8}$	1 25	1 60	2 00	1835
1836	$\frac{7}{8}$	$1\frac{3}{16}$	1	10	$\frac{7}{8}$	1 25	1 60	2 00	1836
1837	1	$1\frac{5}{8}$	$\frac{7}{8}$	11	$1\frac{5}{16}$	1 80	2 20	2 70	1837
1838	1	$1\frac{5}{8}$	1	11	$1\frac{5}{16}$	1 80	2 20	2 70	1838
1839	$1\frac{1}{8}$	$1\frac{13}{16}$	1	11	$1\frac{5}{16}$	1 80	2 20	2 70	1839
1840	$1\frac{1}{4}$	2	1	11	$1\frac{3}{8}$	1 80	2 20	2 70	1840

When ordering specify Number, Model and Finish

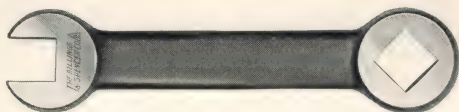
SINGLE-HEAD BOX WRENCHES



No.	Size of Opening	Length	Thickness of Head	PRICE			No.
				Forged Opening	Unfinished Broached	Finished	
1850	$\frac{3}{16}$	3	$\frac{1}{4}$	\$0 11	\$0 15	\$0 23	1850
1851	$\frac{1}{4}$	$3\frac{1}{4}$	$\frac{5}{16}$	12	17	27	1851
1852	$\frac{5}{16}$	$3\frac{3}{4}$	$\frac{3}{8}$	14	20	31	1852
1853	$\frac{3}{8}$	$4\frac{1}{4}$	$\frac{1}{2}$	16	24	35	1853
1854	$\frac{7}{16}$	5	$\frac{5}{8}$	19	28	40	1854
1855	$\frac{1}{2}$	$5\frac{1}{2}$	$\frac{3}{4}$	23	34	48	1855
1856	$\frac{5}{8}$	$6\frac{1}{4}$	$\frac{7}{8}$	28	41	58	1856
1857	$\frac{3}{4}$	7	$\frac{7}{8}$	35	50	70	1857
1858	$\frac{7}{8}$	8	$\frac{1}{2}$	44	62	85	1858
1859	$\frac{1}{2}$	9	$\frac{1}{2}$	60	81	1 10	1859
1860	1	10	$\frac{1}{2}$	80	1 05	1 40	1860

When ordering specify Number, Model and Finish

DOUBLE-HEAD TOOL-POST WRENCHES FOR SET
SCREWS



No.	Open End	Closed End	Length	Thickness of Heads	PRICE			No.
					Unfinished	Semi- Finished	Finished	
1875	$\frac{3}{16}$	$\frac{3}{16}$	$5 \frac{1}{2}$	$\frac{1}{2}$	\$0 40	\$0 56	\$0 80	1875
1876	$\frac{1}{2}$	$\frac{1}{2}$	6	$\frac{3}{16}$	44	62	88	1876
1877	$\frac{3}{16}$	$\frac{1}{2}$	6	$\frac{3}{16}$	44	62	88	1877
1878	$\frac{3}{16}$	$\frac{3}{16}$	6	$\frac{3}{16}$	44	62	88	1878
1879	$\frac{5}{8}$	$\frac{5}{8}$	$6 \frac{3}{4}$	$\frac{5}{8}$	52	72	1 00	1879
1880	$\frac{11}{16}$	$\frac{5}{8}$	$6 \frac{3}{4}$	$\frac{5}{8}$	52	72	1 00	1880
1881	$\frac{11}{16}$	$\frac{11}{16}$	$6 \frac{3}{4}$	$\frac{5}{8}$	52	72	1 00	1881
1882	$\frac{3}{4}$	$\frac{3}{4}$	$7 \frac{1}{2}$	$\frac{11}{16}$	60	82	1 16	1882

When ordering specify Number, Model and Finish

LIGHT SERVICE WRENCHES



No.	U. S. Standard Bolt Size	Hexagon Head Cap. Sc. Size	Square Head Cap. Sc. Size	Milled Opening	Ex- treme Length	Thick- ness of Head	PRICE			No.
							Unfin- ished	Semi- Finished	Finished	
2000	. . .	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{3}{8}$ - $\frac{1}{16}$	$6\frac{1}{4}$	$\frac{3}{32}$	\$0 18	\$0 27	\$0 38	2000
2001	. . .	$\frac{3}{16}$ - $\frac{3}{16}$	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{16}$	18	27	38	2001
2002	$\frac{3}{16}$ - $\frac{1}{4}$	. . .	. . .	$1\frac{1}{2}$ - $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{16}$	18	27	38	2002
2003	. . .	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{1}{4}$ - $\frac{7}{16}$	$\frac{3}{8}$ - $\frac{3}{16}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2003
2004	$\frac{3}{16}$ - $\frac{3}{16}$	. . .	. . .	$1\frac{1}{2}$ - $1\frac{1}{2}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2004
2005	. . .	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{7}{16}$ - $\frac{1}{2}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2005
2006	. . .	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{3}{16}$ - $\frac{7}{16}$	$\frac{3}{16}$ - $\frac{3}{16}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2006
2007	. . .	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{1}{2}$ - $\frac{3}{16}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2007
2008	$\frac{1}{4}$ - $\frac{3}{16}$	. . .	. . .	$\frac{1}{2}$ - $1\frac{1}{2}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2008
2009	. . .	$\frac{3}{16}$ - $\frac{7}{16}$	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{3}{8}$	$7\frac{1}{8}$	$\frac{1}{4}$	23	34	47	2009
2010	$\frac{1}{4}$ - $\frac{3}{8}$	. . .	$\frac{3}{8}$ - $\frac{9}{16}$	$\frac{1}{2}$ - $1\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2010
2011	. . .	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{3}{8}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2011
2012	. . .	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{3}{16}$ - $\frac{5}{8}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2012
2013	. . .	. . .	$\frac{3}{16}$ - $\frac{9}{16}$	$\frac{9}{16}$ - $1\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2013
2014	. . .	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{7}{16}$ - $\frac{5}{8}$	$\frac{9}{16}$ - $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2014
2015	$\frac{3}{16}$ - $\frac{3}{8}$	. . .	. . .	$1\frac{1}{2}$ - $1\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2015
2016	$\frac{3}{16}$ - $\frac{7}{16}$	. . .	. . .	$1\frac{1}{2}$ - $2\frac{1}{2}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2016
2017	. . .	. . .	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{5}{8}$ - $1\frac{1}{16}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2017
2018	. . .	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{3}{8}$ - $\frac{3}{4}$	$8\frac{1}{4}$	$\frac{5}{16}$	29	43	58	2018
2019	. . .	$\frac{7}{16}$ - $\frac{9}{16}$	. . .	$\frac{5}{8}$ - $1\frac{1}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2019
2020	. . .	$\frac{7}{16}$ - $\frac{5}{8}$	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{3}{8}$ - $\frac{1}{2}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2020
2021	. . .	. . .	$\frac{3}{16}$ - $\frac{5}{8}$	$1\frac{1}{16}$ - $\frac{3}{4}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2021
2022	$\frac{3}{8}$ - $\frac{7}{16}$	. . .	. . .	$1\frac{1}{16}$ - $2\frac{1}{2}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2022
2023	. . .	. . .	. . .	$1\frac{1}{16}$ - $2\frac{1}{2}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2023
2024	$\frac{3}{8}$ - $\frac{1}{2}$	. . .	$\frac{3}{16}$ - $\frac{3}{4}$	$1\frac{1}{16}$ - $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2024
2025	. . .	$\frac{1}{2}$ - $\frac{3}{16}$	. . .	$\frac{3}{4}$ - $1\frac{1}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2025
2026	. . .	$\frac{1}{2}$ - $\frac{3}{8}$	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{7}{8}$	$9\frac{1}{4}$	$\frac{3}{8}$	38	55	72	2026

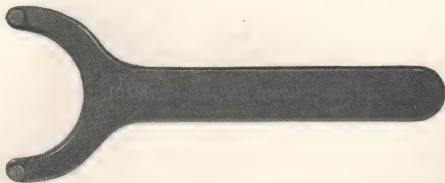
When ordering specify Number, Model and Finish

LIGHT SERVICE WRENCHES

No.	U. S. Standard Bolt Size	Hexagon Head Cap. Sc. Size	Square Head Cap. Sc. Size	Milled Opening	Ex-treme Length	Thick-ness of Head	PRICE			No.
							Unfin-ished	Semi-Finished	Finished	
2027	. . .	$\frac{1}{2}$ - $\frac{3}{4}$	. . .	$\frac{3}{4}$ -1	10 $\frac{3}{8}$	$\frac{1}{16}$	\$0 50	\$0 70	\$0 90	2027
2028	$\frac{1}{16}$ - $\frac{1}{2}$	. . .	. . .	$\frac{25}{64}$ - $\frac{7}{8}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2028
2029	$\frac{1}{16}$ - $\frac{9}{16}$	. . .	. . .	$\frac{25}{64}$ - $\frac{31}{64}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2029
2030	. . .	$\frac{9}{16}$ - $\frac{5}{8}$	. . .	$\frac{15}{16}$ - $\frac{7}{8}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2030
2031	. . .	$\frac{9}{16}$ - $\frac{3}{4}$	. . .	$\frac{15}{16}$ -1	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2031
2032	. . .	. . .	. . .	$\frac{27}{64}$ - $\frac{15}{16}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2032
2033	. . .	. . .	. . .	$\frac{7}{8}$ - $\frac{15}{16}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2033
2034	$\frac{1}{2}$ - $\frac{9}{16}$	. . .	. . .	$\frac{7}{8}$ - $\frac{31}{64}$	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2034
2035	. . .	$\frac{5}{8}$ - $\frac{3}{4}$	. . .	$\frac{7}{8}$ -1	10 $\frac{3}{8}$	$\frac{1}{16}$	50	70	90	2035
2036	$\frac{1}{2}$ - $\frac{5}{8}$	. . .	. . .	$\frac{7}{8}$ -1 $\frac{1}{16}$	12	$\frac{1}{2}$	70	1 00	1 30	2036
2037	. . .	$\frac{5}{8}$ - $\frac{7}{8}$	$\frac{3}{4}$ - $\frac{7}{8}$	$\frac{7}{8}$ -1 $\frac{1}{8}$	12	$\frac{1}{2}$	70	1 00	1 30	2037
2038	. . .	. . .	. . .	$\frac{15}{16}$ -1	12	$\frac{1}{2}$	70	1 00	1 30	2038
2039	$\frac{9}{16}$ - $\frac{5}{8}$	. . .	. . .	$\frac{31}{64}$ -1 $\frac{1}{16}$	12	$\frac{1}{2}$	70	1 00	1 30	2039
2040	$\frac{9}{16}$ - $\frac{3}{4}$	. . .	. . .	$\frac{31}{64}$ -1 $\frac{1}{4}$	12	$\frac{1}{2}$	70	1 00	1 30	2040
2041	. . .	$\frac{3}{4}$ - $\frac{7}{8}$	. . .	1 -1 $\frac{1}{8}$	12	$\frac{1}{2}$	70	1 00	1 30	2041
2042	. . .	$\frac{3}{4}$ -1	. . .	1 -1 $\frac{1}{4}$	12	$\frac{1}{2}$	70	1 00	1 30	2042
2043	$\frac{5}{8}$ - $\frac{3}{4}$	. . .	. . .	1 $\frac{1}{16}$ -1 $\frac{1}{4}$	12	$\frac{1}{2}$	70	1 00	1 30	2043
2044	. . .	$\frac{7}{8}$ -1	$\frac{3}{4}$ -1	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	12	$\frac{1}{2}$	70	1 00	1 30	2044

When ordering specify Number, Model and Finish

FACE SPANNERS



No.	PINS			Radius of Span	Length	Thick- ness	PRICE			No.
	Distance C. to C.	Diam. Milled	Length				Unfin- ished	Semi- Finished	Finished	
3	1	$\frac{3}{16}$	$\frac{3}{16}$	$1\frac{1}{32}$	$4\frac{1}{2}$	$\frac{3}{16}$	\$0 24	\$0 30	\$0 40	3
4	$1\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{4}$	$4\frac{15}{16}$	$\frac{3}{16}$	26	33	45	4
5	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	$5\frac{3}{8}$	$\frac{3}{16}$	29	37	50	5
6	$1\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{16}$	$5\frac{13}{16}$	$\frac{1}{8}$	33	42	56	6
7	2	$\frac{1}{4}$	$\frac{1}{4}$	$1\frac{1}{16}$	$6\frac{1}{4}$	$\frac{1}{8}$	38	48	63	7
8	$2\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$1\frac{1}{16}$	$6\frac{11}{16}$	$\frac{1}{8}$	44	55	72	8
9	$2\frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{4}$	$1\frac{3}{4}$	$7\frac{1}{8}$	$\frac{1}{4}$	51	64	82	9
10	$2\frac{3}{4}$	$\frac{3}{16}$	$\frac{1}{4}$	$1\frac{11}{16}$	$7\frac{3}{8}$	$\frac{1}{4}$	59	74	94	10
11	3	$\frac{3}{16}$	$\frac{3}{16}$	$1\frac{13}{16}$	$8\frac{1}{8}$	$\frac{1}{4}$	68	85	1 08	11
12	$3\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$1\frac{15}{16}$	$8\frac{3}{8}$	$\frac{1}{4}$	78	97	1 24	12
13	$3\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$	$1\frac{7}{8}$	9	$\frac{1}{4}$	88	1 10	1 40	13
14	$3\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{16}$	$1\frac{5}{8}$	$9\frac{1}{2}$	$\frac{1}{4}$	1 00	1 25	1 60	14
15	4	$\frac{3}{8}$	$\frac{3}{16}$	$1\frac{3}{4}$	10	$\frac{1}{4}$	1 15	1 45	1 85	15

When ordering specify Number, Model and Finish

SPANNER WRENCHES

Nos. 1, 2, 3 and 4

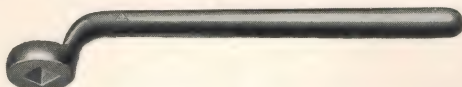


PRICE LIST

No.	Circle. Inches	PRICE, EACH			No.
		Unfinished	Semi-Finished	Full Fini bed	
1	2	\$0 22	\$0 33	\$0 44	1
2	2 ½	24	36	48	2
3	3	28	42	56	3
4	4	36	54	72	4

CHUCK WRENCHES

Nos. 1, 2, 3, 4, 5 and 6



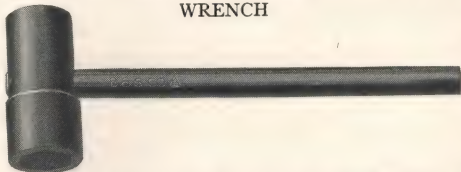
Holes are broached to sizes given in list below. Unfinished are not ground or hardened. Semi-finished Wrenches are polished and case-hardened

No.	Chuck Inches	Length Inches	Hole Inches	PRICE, EACH		No.
				Unfinished	Semi-Finished	
1	4	6.	13/32	\$0 25	\$0 40	1
2	6	6 ½	3/16	25	40	2
3	9	7 ¾	15/32	35	45	3
4	12	7 ¾	15/32	35	45	4
5	15	10	17/32	45	60	5
6	18	11 ½	17/32	50	70	6

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. AUTOMOBILE DOUBLE OPENING SOCKET WRENCH

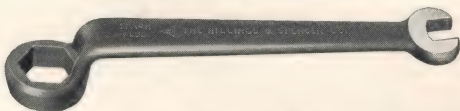


This Wrench is made in three sizes, as listed below. Each wrench has two hexagon openings in the head, making a set of six openings in A. L. A. M. Standard Sizes. They are strong, of good steel. A very handy tool around an auto and for general use.

PRICE LIST AND DIMENSIONS

No.	Openings, Inches	Length, Inches	Price, Each	No.
800	$\frac{1}{2}$ - $\frac{3}{16}$	6	\$0 50	800
801	$\frac{11}{16}$ - $\frac{3}{4}$	7	55	801
802	$\frac{7}{8}$ - $\frac{15}{16}$	8	60	802

SPARK PLUG WRENCH



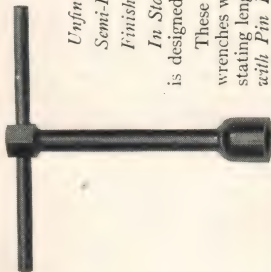
The advantages of this Wrench will be seen at once by all users of automobiles who have experienced the inconvenience of the ordinary wrench on spark plugs. This wrench has a box end exactly fitting the plug, and placed at an offset which accommodates it to all kinds of cylinder heads. The opposite end is placed at a 15-degree angle and is adapted to general use.

PRICE LIST AND DIMENSIONS

No.	OPENINGS		PRICE, EACH			No.
	Box End Inches	Open End Inches	Unfinished	Semi- Finished	Full Finished	
810	$\frac{1}{8}$	$\frac{3}{16}$	\$0 40	\$0 58	\$0 85	810
811	1	$\frac{3}{16}$	40	58	85	811

When ordering specify Number, Model and Finish

T HANDLE SOCKET WRENCHES

WITH OR WITHOUT PIN HANDLE, FOR
HEXAGON NUTS AND CAP SCREWS*Unfinished*—are broached only.*Semi-Finished*—are broached, edges ground and case-hardened all over.*Finished*—are broached, polished all over, case-hardened and lacquered.*In Stock*—with openings of U. S. Standard dimensions. Hexagon end of shank is designed for use in combination with another wrench or with Pin Handle.These wrenches can be furnished *to order* in any length of shank required. Such wrenches will be special and will be furnished at special prices. Send for quotation, stating length and number of wrenches desired. *Unless otherwise specified, wrenches with Pin Handles will be sent.*

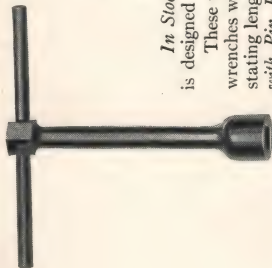
Wrench Number	HEXAGON OPENINGS			Ex- treme Length	Hexagon End Same Size as U. S. Nut for Size Bolt	Length of Pin Handle	PRICE						Wrench Number
	For U. S. Stand- ard Size Bolt	For Cap Screw; Diam. Screw	Short Diam. Broached Open- ing				Unfinished		Semi-Finished		Finished		
							Without Pin Handle or Hole for Same	Assem. Com- plete	Without Pin Handle or Hole for Same	Assem. Com- plete	Without Pin Handle or Hole for Same	Assem. Com- plete	
721 A	1/8	...	2 1/4	4	3/8	4	\$0 20	\$0 30	\$0 30	\$0 40	\$0 50	721 A	
722 A	...	3/8	2 3/4	4 1/2	1/4	4 1/2	22	33	33	44	55	722 A	
722 B	3/8	...	2 1/4	4 1/2	1/4	4 1/2	24	37	36	49	61	722 B	
722 C	...	1/4	2 3/4	4 1/2	1/4	4 1/2	24	37	36	49	61	722 C	
723 A	1/4	3/8	2 3/4	5 1/4	3/8	5 1/4	26	39	39	52	65	723 A	

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

724 A	...	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	5 $\frac{3}{4}$	29	43	44	58	58	72	724 A
724 B	$\frac{5}{16}$	...	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	5 $\frac{3}{4}$	29	43	44	58	58	72	724 B
725 A	...	$\frac{3}{8}$	$\frac{4}{8}$	$\frac{6}{16}$	1	$\frac{7}{16}$	6 $\frac{1}{8}$	32	47	48	63	64	79	725 A
725 B	$\frac{3}{8}$	...	$\frac{4}{8}$	$\frac{6}{16}$	$\frac{1}{8}$	$\frac{7}{16}$	6 $\frac{1}{8}$	36	53	54	71	72	89	725 B
725 C	...	$\frac{1}{2}$	$\frac{4}{8}$	$\frac{6}{16}$	$\frac{1}{8}$	$\frac{7}{16}$	6 $\frac{1}{8}$	36	53	54	71	72	89	725 C
726 A	$\frac{7}{16}$	...	$\frac{5}{8}$	7	$\frac{1}{4}$	$\frac{1}{2}$	7	40	57	60	77	80	97	726 A
726 B	...	$\frac{9}{16}$	$\frac{5}{8}$	7	$\frac{1}{4}$	$\frac{1}{2}$	7	40	57	60	77	80	97	726 B
726 C	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	7	$\frac{1}{4}$	$\frac{1}{2}$	7	46	64	69	87	92	1 10	726 C
727 A	$\frac{9}{16}$	...	$\frac{6}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	52	72	78	98	1 04	1 24	727 A
727 B	...	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{8}$	52	72	78	98	1 04	1 24	727 B
728 A	$\frac{5}{8}$	...	$\frac{1}{4}$	$\frac{8}{8}$	$\frac{1}{8}$	$\frac{3}{4}$	$\frac{8}{8}$	60	80	90	1 10	1 20	1 40	728 A
728 B	...	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{8}{8}$	$\frac{1}{8}$	$\frac{3}{4}$	$\frac{8}{8}$	70	95	1 05	1 30	1 40	1 65	728 B
729 A	$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{9}{8}$	$\frac{1}{8}$	$\frac{3}{4}$	$\frac{9}{8}$	80	1 10	1 20	1 50	1 60	1 90	729 A
730 A	...	$\frac{1}{8}$	$\frac{1}{2}$	10	$\frac{2}{8}$	$\frac{7}{8}$	10	90	1 25	1 35	1 70	1 80	2 15	730 A
730 B	$\frac{7}{8}$	...	$\frac{1}{2}$	10	$\frac{2}{8}$	$\frac{7}{8}$	10	1 00	1 35	1 50	1 85	2 00	2 35	730 B
730 C	...	$\frac{1}{4}$	$\frac{1}{2}$	10	$\frac{2}{8}$	$\frac{7}{8}$	10	1 00	1 35	1 50	1 85	2 00	2 35	730 C
731 A	1	...	$\frac{1}{2}$	$\frac{10}{8}$	$\frac{2}{8}$	1	$\frac{10}{8}$	1 15	1 55	1 72	2 12	2 30	2 70	731 A
731 B	$\frac{1}{8}$	...	$\frac{1}{2}$	$\frac{10}{8}$	$\frac{2}{8}$	1	$\frac{10}{8}$	1 30	1 75	1 95	2 40	2 60	3 05	731 B
732 A	$\frac{1}{4}$	...	$\frac{2}{8}$	$\frac{11}{8}$	$\frac{2}{8}$	$\frac{1}{8}$	$\frac{11}{8}$	1 60	2 05	2 40	2 85	3 20	3 65	732 A
733 A	$\frac{1}{8}$	...	$\frac{2}{8}$	$\frac{12}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{12}{8}$	2 10	2 60	3 15	3 65	4 20	4 70	733 A
733 B	$\frac{1}{2}$	...	$\frac{2}{8}$	$\frac{12}{8}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{12}{8}$	2 80	3 45	4 20	4 84	5 60	6 25	733 B

T HANDLE SOCKET WRENCHES

WITH OR WITHOUT PIN HANDLE, FOR SQUARE
• NUTS, CAP SCREWS AND SET SCREWS



Unfinished—are broached only.

Semi-Finished—are broached, edges ground and case-hardened all over.

Finished—are broached, polished all over, case-hardened and lacquered.

In Stock—with openings of U. S. Standard dimensions. Hexagon end of shank is designed for use in combination with another wrench or with Pin Handle.

These wrenches can be furnished *to order* in any length of shank required. Such wrenches will be special and will be furnished at special prices. Send for quotation, stating length and number of wrenches desired. *Unless otherwise specified, wrenches with Pin Handles will be sent.*

Wrench Number	SQUARE OPENINGS				Ex- treme Length	Diam. Head	Hexagon End Same Size as U. S. Nut for Size Bolt	PRICE						Wrench Number
	For U. S. Stand and Nut; Size Bolt	For Cap Screw; Diam. Screw	For Set Screw; Size; Screw	Short Diam. of Broach Open- ing				Unfinished	Semi-Finished		Finished			
									With- out Pin Handle or Hole for Same	Assem. Com- plete	With- out Pin Handle or Hole for Same	Assem. Com- plete	With- out Pin Handle or Hole for Same		Assem. Com- plete
720 J	..	..	1/8	1/8	3 3/8	1 1/8	3	\$0 18	\$0 26	\$0 27	\$0 35	\$0 36	\$0 44	720 J
721 J	...	...	3/8	1 1/4	4	1/2	4	20	30	30	40	40	50	721 J
721 K	...	..	1/4	1 1/4	4	1/2	4	20	30	30	40	40	50	721 K
722 J	...	...	3/8	2 3/4	4 1/2	5/8	4 1/2	22	33	33	44	44	55	722 J

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

824 A	...	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{16}$	$\frac{7}{8}$	$5\frac{1}{2}$	$\frac{3}{16}$	43	58	72	824 A
824 B	$\frac{5}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{16}$	$\frac{7}{8}$	$5\frac{1}{2}$	$\frac{3}{16}$	43	58	72	824 B
825 A	.	$\frac{3}{16}$	$\frac{4}{16}$	$\frac{1}{16}$	1	$6\frac{1}{4}$	$\frac{1}{2}$	47	63	79	825 A
825 B	$\frac{3}{8}$	.	$\frac{4}{16}$	$\frac{1}{16}$	$1\frac{1}{8}$	7	$\frac{1}{2}$	53	71	89	825 B
825 C	...	$\frac{1}{2}$	$\frac{4}{16}$	$\frac{1}{16}$	$1\frac{1}{8}$	7	$\frac{1}{2}$	53	71	89	825 C
826 A	$\frac{7}{16}$	...	$\frac{5}{16}$	2	$1\frac{1}{4}$	$7\frac{3}{4}$	$\frac{5}{8}$	57	77	97	826 A
826 B	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{5}{16}$	2	$1\frac{1}{4}$	$7\frac{3}{4}$	$\frac{5}{8}$	57	77	97	826 B
826 C	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{16}$	2	$1\frac{1}{4}$	$7\frac{3}{4}$	$\frac{5}{8}$	64	87	1 10	826 C
827 A	$\frac{5}{8}$	.	$\frac{5}{16}$	$2\frac{5}{16}$	$1\frac{1}{2}$	$8\frac{1}{2}$	$\frac{1}{16}$	72	98	1 24	827 A
827 B	.	$\frac{3}{4}$	$1\frac{1}{16}$	$2\frac{5}{16}$	$1\frac{1}{2}$	$8\frac{1}{2}$	$\frac{1}{16}$	72	98	1 24	827 B
828 A	$\frac{5}{8}$	...	$1\frac{1}{16}$	$2\frac{1}{2}$	$1\frac{1}{8}$	$9\frac{1}{4}$	$\frac{3}{4}$	80	1 10	1 40	828 A
828 B	...	$\frac{3}{8}$	$1\frac{5}{16}$	$2\frac{1}{2}$	$1\frac{1}{8}$	$9\frac{1}{4}$	$\frac{3}{4}$	95	1 30	1 65	828 B
829 A	$\frac{3}{4}$	1	$1\frac{5}{16}$	$2\frac{5}{16}$	$1\frac{1}{8}$	10	$\frac{7}{8}$	1 10	1 50	1 90	829 A
830 A	.	$\frac{1}{8}$	$1\frac{3}{16}$	$3\frac{5}{16}$	$2\frac{1}{8}$	$10\frac{3}{4}$	1	1 25	1 70	2 15	830 A
830 B	$\frac{3}{8}$	...	$1\frac{3}{16}$	$3\frac{5}{16}$	$2\frac{1}{8}$	$10\frac{3}{4}$	1	1 35	1 85	2 35	830 B
830 C	$\frac{1}{4}$	$\frac{1}{4}$	$1\frac{3}{16}$	$3\frac{5}{16}$	$2\frac{1}{8}$	$10\frac{3}{4}$	1	1 35	1 85	2 35	830 C
831 A	1	...	$1\frac{3}{16}$	$3\frac{5}{16}$	$2\frac{1}{8}$	$11\frac{1}{4}$	$\frac{1}{16}$	1 55	2 12	2 70	831 A
831 B	$\frac{1}{16}$	...	$1\frac{3}{16}$	$3\frac{5}{16}$	$2\frac{1}{8}$	$11\frac{1}{2}$	$\frac{1}{16}$	1 75	2 40	3 05	831 B
832 A	$\frac{1}{4}$	.	$2\frac{5}{16}$	$3\frac{5}{16}$	$2\frac{3}{4}$	$12\frac{1}{4}$	$\frac{1}{16}$	2 05	2 85	3 65	832 A
833 A	$\frac{1}{8}$	...	$2\frac{5}{16}$	$4\frac{3}{16}$	$3\frac{5}{8}$	13	$\frac{1}{16}$	2 60	3 65	4 70	833 A
833 B	$\frac{1}{16}$	...	$2\frac{5}{16}$	$4\frac{3}{16}$	$3\frac{5}{8}$	13	$\frac{1}{16}$	3 45	4 84	6 25	833 B

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

723 J	...	1/4	3/8	3/4	5 1/4	3/4	5/8	5 1/4	24	37	36	49	48	61	723 J
724 J	...	5/8	3/8	7/8	5 3/4	7/8	3/8	5 3/4	29	43	44	58	58	72	724 J
725 J	1/4	3/8	1/2	1	6 1/8	1	3/8	6 1/8	32	47	48	63	64	79	725 J
725 K	...	3/8	3/8	1 1/8	6 1/8	1 1/8	3/8	6 1/8	36	53	54	71	72	89	725 K
726 J	5/8	...	...	1 1/4	7	1 1/4	1/2	7	36	53	54	71	72	89	726 J
726 K	...	1/2	5/8	1 1/4	7	1 1/4	1/2	7	40	57	60	77	80	97	726 K
726 L	3/8	3/8	...	1 1/4	7	1 1/4	1/2	7	40	57	60	77	80	97	726 L
727 J	...	5/8	3/4	1 1/2	7 7/8	1 1/2	5/8	7 7/8	46	64	69	87	92	1 10	727 J
727 K	3/8	...	...	1 1/2	7 7/8	1 1/2	5/8	7 7/8	52	72	78	98	1 04	1 24	727 K
728 J	1/2	3/4	7/8	1 5/8	8 5/8	1 5/8	3/4	8 5/8	60	80	90	1 10	1 20	1 40	728 J
729 J	3/8	...	...	1 7/8	9 1/8	1 7/8	3/4	9 1/8	70	95	1 05	1 30	1 40	1 65	729 J
729 K	...	...	1	1 7/8	9 1/8	1 7/8	3/4	9 1/8	80	1 10	1 20	1 50	1 60	1 90	729 K
729 L	5/8	...	...	1 7/8	9 1/8	1 7/8	3/4	9 1/8	90	1 25	1 35	1 70	1 80	2 15	729 L
730 J	...	3/8	1 1/8	10	10	2 1/8	7/8	10	90	1 25	1 35	1 70	1 80	2 15	730 J
730 K	3/4	1	1 3/4	10	10	2 1/8	7/8	10	1 15	1 55	1 72	2 12	2 30	2 70	730 K
731 J	...	1 1/8	...	10 7/8	10 7/8	2 1/2	1	10 7/8	1 30	1 75	1 95	2 40	2 60	3 05	731 J
731 K	3/8	...	...	10 7/8	10 7/8	2 1/2	1	10 7/8	1 30	1 75	1 95	2 40	2 60	3 05	731 K
732 J	...	1 1/4	...	11 3/8	11 3/8	2 3/4	1 1/8	11 3/8	1 30	1 75	1 95	2 40	2 60	3 05	732 J
732 K	1	1 3/8	...	11 3/8	11 3/8	2 3/4	1 1/8	11 3/8	1 60	2 05	2 40	2 85	3 20	3 65	732 K
733 J	1 1/8	...	...	12 1/2	12 1/2	3 5/8	1 3/8	12 1/2	2 10	2 60	3 15	3 65	4 20	4 70	733 J
733 K	1 3/4	...	...	12 1/2	12 1/2	3 5/8	1 3/8	12 1/2	2 80	3 45	4 20	4 85	5 60	6 25	733 K

OFFSET HANDLE SOCKET WRENCHES

WITH HANDLE BENT AT RIGHT ANGLE TO HEAD
FOR HEXAGON NUTS AND HEXAGON CAP SCREWS

Unfinished—are broached only.

Semi-Finished—are broached, edges ground and case-hardened all over.

Finished—are broached, polished all over, case-hardened and lacquered.

In Stock—with openings of U. S. Standard dimensions.

These wrenches can be furnished *to order* in any length of handle required. Such wrenches will be special and will be furnished at special prices. Send for quotation, stating length and number of wrenches desired.



Wrench Number	For U. S. Standard Nut; Size Bolt	For Cap Screw; Diam. of Screw	Short Diam. of Broached Opening	From Face of Wrench to Handle	Diam. of Head	Length of Handle	Diam. of Handle	Price Unfinished	Price Semi-Finished	Price Finished	Wrench Number
821 A	1/8	...	21/64	3/4	1/2	3 1/4	1/4	\$0 30	\$0 40	\$0 50	821 A
822 A	...	3/16	25/64	13/16	5/8	4	3/8	33	44	55	822 A
822 B	5/16	...	27/64	13/16	5/8	4	3/8	37	49	61	822 B
822 C	...	1/4	29/64	13/16	5/8	4	3/8	37	49	61	822 C
823 A	1/4	5/16	31/64	1 1/4	3/4	4 3/4	3/8	39	52	65	823 A

OFFSET HANDLE SOCKET WRENCHES

WITH HANDLE BENT AT RIGHT ANGLE TO HEAD
FOR SQUARE NUTS, CAP AND SET SCREWS

Unfinished—are broached only.

Semi-Finished—are broached, edges ground and case-hardened all over.

Finished—are broached, polished all over, case-hardened and lacquered.

In Stock—with openings of U. S. Standard dimensions.

These wrenches can be furnished *to order* in any length of handle required. Such wrenches will be special and will be furnished at special prices. Send for quotation, stating length and number of wrenches desired.



Wrench Number	For U. S. Standard Nut; Size Bolt	For Cap Screw Diam. of Screw	For Set Screw Size Screw	Short Diam of Broached Opening	From Face of Wrench to Handle	Diam of Head	Length of Handle	Diam of Handle	Price Unfinished	Price Semi-Finished	Price Finished	Wrench Number
820 J	..	..	1/8	1/8	3/8	1 1/2	2 3/4	1 1/2	\$0 26	\$0 35	\$0 44	820 J
821 J	..	..	3/16	13/64	3/4	1 1/2	3 1/4	1/4	30	40	50	821 J
821 K	..	..	1/4	13/64	3/4	1 1/2	3 1/4	1/4	30	40	50	821 K
822 J	..	..	5/16	2 1/4	1 1/2	5/8	4	3/8	33	44	55	822 J

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

823 J	...	1/4	3/8	3/4	1 1/4	3/4	4 3/4	3/8	37	49	61	823 J
824 J	...	5/16	1/16	2 3/4	1 1/16	7/8	5 1/2	1/16	43	58	72	824 J
825 J	1/4	3/8	1/2	3/4	1 11/16	1	6 1/4	1/2	47	63	79	825 J
825 K	..	3/16	9/16	5/4	1 3/4	1 1/8	7 -	1/2	53	71	89	825 K
826 J	5/16	...	...	3 3/4	2	1 1/4	7 3/4	5/8	53	71	89	826 J
826 K	...	1/2	5/8	4 1/4	2	1 1/4	7 3/4	5/8	57	77	97	826 K
826 L	5/8	9/16	...	4 3/4	2	1 1/4	7 3/4	5/8	57	77	97	826 L
827 J	...	5/8	3/4	4 1/4	2 5/16	1 1/2	8 1/2	11/16	64	87	1 10	827 J
827 K	7/16	...	...	3 1/4	2 5/16	1 1/2	8 1/2	11/16	72	98	1 24	827 K
828 J	1/2	3/4	7/8	5/4	2 1/2	1 5/8	9 1/4	3/4	80	1 10	1 40	828 J
829 J	9/16	...	...	3 3/4	2 5/16	1 1/2	10	7/8	95	1 30	1 65	829 J
829 K	...	...	1	1 1/4	2 5/16	1 1/2	10	7/8	1 10	1 50	1 90	829 K
829 L	5/8	...	...	1 3/4	2 5/16	1 1/2	10	7/8	1 25	1 70	2 15	829 L
830 J	...	7/8	1 1/8	1 5/8	3 3/8	2 1/2	10 3/4	1	1 25	1 70	2 15	830 J
830 K	3/4	1	1 1/4	1 5/8	3 3/8	2 1/2	10 3/4	1	1 55	2 12	2 70	830 K
831 J	...	1 1/8	...	1 5/8	3 3/8	2 1/2	11 1/2	1 1/8	1 75	2 40	3 05	831 J
831 K	7/16	...	...	1 5/8	3 3/8	2 1/2	11 1/2	1 1/8	1 75	2 40	3 05	831 K
832 J	...	1 1/4	...	1 7/8	3 3/8	2 3/4	12 1/4	1 1/8	1 75	2 40	3 05	832 J
832 K	1	1 3/8	...	1 5/8	3 3/8	2 3/4	12 1/4	1 1/8	2 05	2 85	3 65	832 K
833 J	1 1/8	...	...	1 7/8	4 3/8	3 3/8	13	1 1/8	2 60	3 65	4 70	833 J
833 K	1 1/4	...	...	2 3/8	4 3/8	3 3/8	13	1 3/8	3 45	4 85	6 25	833 K

BIT-BRACE SOCKET WRENCHES



These Socket Wrenches are drop-forged of Open Hearth steel and have standard bit stock shank for use with bit-brace or handle designed special for the purpose. These wrenches are furnished in both hex and square openings as listed.

FOR HEXAGON NUTS AND CAP SCREWS

Wrench No.	HEXAGON OPENINGS			Extreme Length	Diam. Head	PRICE—EACH		Wrench No.
	For U.S. Standard Nut; Size Bolt	For Cap Screw; Diameter Screw	Short Diameter Broached Opening			Semi-Finished	Finished	
921A	$\frac{1}{4}$	$\frac{1}{8}$	$2\frac{1}{64}$	4	$1\frac{1}{32}$	\$0 40	\$0 50	921A
922A	.....	$\frac{3}{16}$	$2\frac{3}{64}$	$4\frac{1}{2}$	$\frac{1}{8}$	44	55	922A
922B	$\frac{3}{16}$	.....	$2\frac{7}{64}$	$4\frac{1}{2}$	$\frac{1}{8}$	49	61	922B
922C	.....	$\frac{1}{4}$	$2\frac{9}{64}$	$4\frac{1}{2}$	$\frac{1}{8}$	49	61	922C
923A	$\frac{1}{4}$	$\frac{3}{16}$	$3\frac{1}{64}$	$4\frac{3}{4}$	$2\frac{1}{32}$	52	65	923A
924A	.....	$\frac{3}{8}$	$3\frac{7}{64}$	$5\frac{1}{4}$	$\frac{5}{16}$	58	72	924A
924B	$\frac{3}{8}$	.....	$3\frac{9}{64}$	$5\frac{1}{4}$	$\frac{5}{16}$	58	72	924B
925A	.....	$\frac{3}{16}$	$4\frac{1}{64}$	$5\frac{1}{2}$	1	63	79	925A
925B	$\frac{3}{8}$	..	$4\frac{5}{64}$	$5\frac{3}{4}$	$1\frac{1}{8}$	71	89	925B
925C	..	$\frac{1}{2}$	$4\frac{9}{64}$	$5\frac{3}{4}$	$1\frac{1}{8}$	71	89	925C
926A	$\frac{1}{2}$	..	$5\frac{1}{64}$	$5\frac{3}{4}$	$1\frac{1}{8}$	77	97	926A
926B	.....	$\frac{3}{8}$	$5\frac{3}{64}$	6	$1\frac{1}{32}$	77	97	926B
926C	$\frac{1}{2}$	$\frac{5}{8}$	$5\frac{7}{64}$	6	$1\frac{1}{32}$	87	1 10	926C

When ordering specify Number, Model and Finish

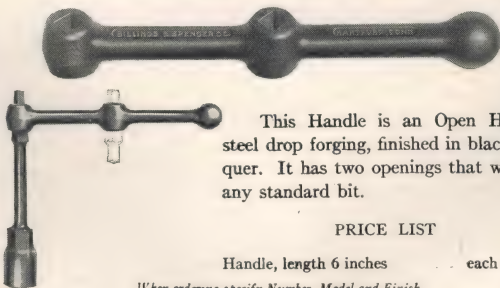
BIT-BRACE SOCKET WRENCHES



FOR SQUARE NUTS AND CAP SCREWS

Wrench No.	SQUARE OPENINGS				Extreme Length	Diam. Head	PRICE		Wrench No.
	For U. S. Standard Nut; Size Bolt	For Cap Screw; Diam. of Screw	For Set Screw; Size	Short Diam. of Br'ch'd Opening			Semi-Finished	Finished	
921J	...		$\frac{3}{16}$	$\frac{1}{8}$	4	$\frac{17}{32}$	\$0 40	\$0 50	921J
921K	...		$\frac{1}{4}$	$\frac{1}{8}$	4	$\frac{17}{32}$	40	50	921K
922J	..		$\frac{3}{16}$	$\frac{3}{16}$	4 $\frac{1}{2}$	$\frac{1}{4}$	44	55	922J
923J	...	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{4}$	4 $\frac{3}{4}$	$\frac{5}{16}$	49	61	923J
924J		$\frac{5}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	5 $\frac{1}{4}$	$\frac{5}{16}$	58	72	924J
925J	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{16}$	5 $\frac{1}{2}$	1	63	79	925J
925K		$\frac{3}{16}$	$\frac{3}{16}$	$\frac{5}{16}$	5 $\frac{1}{2}$	1	71	89	925K
926J	...	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{4}$	5 $\frac{3}{4}$	1 $\frac{1}{8}$	77	97	926J
926K	$\frac{3}{8}$	$\frac{3}{16}$	..	$\frac{1}{4}$	6	1 $\frac{1}{2}$	77	97	926K

HANDLE FOR BIT-BRACE SOCKET WRENCHES



This Handle is an Open Hearth steel drop forging, finished in black lacquer. It has two openings that will fit any standard bit.

PRICE LIST

Handle, length 6 inches each \$0 60

When ordering specify Number, Model and Finish.

WRENCH SETS
Nos. 1, 2 and 2½
LIGHT SERVICE WRENCHES



PRICE LIST
Set No. 1

No.	For Mfgs. Std. Nuts Size Bolt	Milled Openings	Length*	Thickness of Heads	PRICE		No.
					Semi- Finished	Finished	
2002	¾-¾	1½-1½	6 ¼	¾	\$0 27	\$0 38	2002
2009	¾-¾	1½-¾	7 ½	¾	34	47	2009
2017	¾-¾	¾-1½	8 ¼	¾	43	58	2017
2023	¾-¾	1½-¾	9 ¼	¾	55	72	2023
2032	¾-¾	¾-1½	10 ¾	¾	70	90	2032
Price Per Set in Pasteboard Box					2 29	3 05	

Bag \$0 45

Set No. 2

No.	For A.L.A.M. Std. Nuts Size Bolt	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi- Finished	Finished	
2001	¾-¾	¾-1½	6 ¼	¾	\$0 27	\$0 38	2001
2013	¾-¾	¾-1½	8 ¼	¾	43	58	2013
2026	¾-¾	¾-¾	9 ¼	¾	55	72	2026
2038	¾-1½	1½-1	10 ¾	¾	1 00	1 30	2038
2044	¾-¾	1½-1½	12	¾	1 00	1 30	2044
Price Per Set in Pasteboard Box					3 25	4 28	

Bag \$0 45

Set No. 2½

No.	Size Screw A.L.A.M. Head and Nut	Size Screw S.A.E. Head and Nut	Milled Openings	Length	PRICE		No.
					Semi- Finished	Finished	
2000	¾	¾	¾-¾	6 ¼	\$0 27	\$0 38	2000
2007	¾-¾	¾-¾	¾-¾	7 ½	34	47	2007
2017	¾	¾	¾-1½	8 ¼	43	58	2017
2026	¾-¾	¾-¾	¾-¾	9 ¼	55	72	2026
2038Sp.			1½-1½	12	1 00	1 30	2038Sp.
Price Per Set in Pasteboard Box					2 59	3 45	

Bag \$0 45,

When ordering specify Number, Model and Finish

WRENCH SETS
Nos. 3 and 4
LIGHT SERVICE WRENCHES



PRICE LIST

Set No. 3

Number	Milled Openings	Length	Thickness of Heads	PRICE		No.
				Semi-Finished.	Finished	
2001	$\frac{3}{8}$ - $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{3}{32}$	\$0 27	\$0 38	2001
2009	$\frac{1}{2}$ - $\frac{5}{8}$	7 $\frac{1}{8}$	$\frac{1}{4}$	34	47	2009
2018	$\frac{5}{8}$ - $\frac{3}{4}$	8 $\frac{1}{4}$	$\frac{5}{16}$	43	58	2018
2026	$\frac{3}{4}$ - $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{3}{8}$	55	72	2026
2035	$\frac{7}{8}$ -1	10 $\frac{3}{8}$	$\frac{7}{16}$	70	90	2035
Price Per Set in Pasteboard Box				2 29	3 05	

Bag \$0 45.

Set No. 4

No.	Milled Openings	Length	Thickness of Heads	PRICE		No.
				Semi-Finished	Finished	
2000	$\frac{3}{8}$ - $\frac{7}{16}$	6 $\frac{1}{4}$	$\frac{3}{32}$	\$0 27	\$0 38	2000
2007	$\frac{1}{2}$ - $\frac{9}{16}$	7 $\frac{1}{8}$	$\frac{1}{4}$	34	47	2007
2017	$\frac{5}{8}$ - $\frac{11}{16}$	8 $\frac{1}{4}$	$\frac{5}{16}$	43	58	2017
2025	$\frac{3}{4}$ - $\frac{13}{16}$	9 $\frac{1}{4}$	$\frac{3}{8}$	55	72	2025
2033	$\frac{7}{8}$ -1 $\frac{1}{16}$	10 $\frac{3}{8}$	$\frac{7}{16}$	70	90	2033
Price Per Set in Pasteboard Box				2 29	3 05	

Bag \$0 45. When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

WRENCH SET

No. 5

15° ANGLE DOUBLE HEAD ENGINEERS' WRENCHES



PRICE LIST

No.	For Hex. Head Cap Screws and U. S. Std. Nuts	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi- Finished	Finished	
1109	$\frac{1}{4}$	$\frac{3}{16}$ - $\frac{1}{2}$	5	$\frac{3}{16}$	\$0 25	\$0 38	1109
1112	$\frac{5}{16}$	$\frac{1}{2}$ - $\frac{13}{32}$	5	$\frac{3}{16}$	25	38	1112
1118Sp.	$\frac{3}{8}$	$\frac{5}{16}$ - $\frac{11}{16}$	6	$\frac{11}{32}$	31	46	1118Sp.
1120Sp.	$\frac{7}{16}$	$\frac{5}{8}$ - $\frac{25}{32}$	$6 \frac{3}{4}$	$\frac{3}{8}$	37	56	1120Sp.
1126	$\frac{1}{2}$	$\frac{3}{4}$ - $\frac{7}{8}$	8	$\frac{7}{16}$	45	68	1126
1134	$\frac{5}{8}$	$\frac{7}{8}$ - $1 \frac{1}{16}$	10	$\frac{13}{32}$	68	1 08	1134
1139	$\frac{3}{4}$	1 - $1 \frac{1}{4}$	$11 \frac{1}{2}$	$\frac{13}{32}$	96	1 40	1139
Price Per Set in Pasteboard Box					3 27	4 94	

Bag \$0 70.

When ordering specify Number, Model and Finish

WRENCH SETS

Nos. 6 and 7



Set No. 6—Millimeter Sizes
FOR USE ON FOREIGN AUTOMOBILES, ETC.

PRICE LIST

No.	Milled Openings	Length	Thickness of Heads	PRICE		No.
				Semi-Fin'h'd	Finished	
1100 Sp.	6 mm.—	4 in. or	¼ in. or			
	10 mm.	101 mm.	6.35 mm.	\$0 17	\$0. 26	1100 Sp.
1103 Sp.	8 mm.—	4 ½ in. or	⅜ in. or			
	13 mm.	114 mm.	7.14 mm.	21	32	1103 Sp.
1110 Sp.	11 mm.—	5 in. or	⅝ in. or			
	16 mm.	126 mm.	7.93 mm.	25	38	1110 Sp.
1115 Sp.	12 mm.—	6 in. or	¾ in. or			
	18 mm.	165 mm.	8.73 mm.	31	46	1115 Sp.
1119 Sp.	14 mm.—	6 ¾ in. or	⅞ in. or			
	22 mm.	171 mm.	9.52 mm.	37	56	1119 Sp.
1129 Sp.	20 mm.—	9 in. or	1 ⅛ in. or			
	25 mm.	228 mm.	11.9 mm.	55	85	1129 Sp.
Price Per Set in Pasteboard Box				1 86	2 83	

Bag \$0 60

Set No. 7 PRICE LIST

No.	Size of Bolts and Screws	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi-Finished	Finished	
1110	¼-⅜	⅞- ⅞	5	⅝	\$0 25	\$0 38	1110
1114	¼-⅜	⅞- 1 ⅛	6	1 ⅛	31	46	1114
1119	⅝- ⅞	1 ⅞- 2 ⅛	6 ¾	⅞	37	56	1119
1120	⅞- 1 ⅛	⅞- ¾	6 ¾	⅞	37	56	1120
1133	⅞- ¾	¾-1	9	1 ⅞	55	85	1133
1140	⅞- ¾	1 ⅞- 1 ¼	11 ½	1 ⅞	96	1 40	1140
Price Per Set in Pasteboard Box				2 81	4 21		

Bag \$0 60

When ordering specify Number, Model and Finish

WRENCH SETS

Nos. 8 and 8½



Set No. 8—A. L. A. M. Standard

PRICE LIST

No.	A. L. A. M. Std. Bolt or Screw	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi- Finished	Finished	
1105	¼-¾	¾-½	4½	⅝	\$0 21	\$0 32	1105
1118Sp.	⅝-⅞	⅞-1⅞	6	1⅞	31	46	1118Sp.
1126	½-¾	¾-⅞	8	⅞	45	68	1126
1132Sp.	⅝-1⅞	1⅞-1	9	1⅞	55	85	1132Sp.
1140Sp.	¾-⅞	1⅞-1¼	11½	1⅞	96	1 40	1140Sp.
Price Per Set in Pasteboard Box					2 48	3 71	

Bag \$0 45.

Set No. 8½—A. L. A. M. Standard

PRICE LIST

No.	Size Screw A. L. A. M. Head and Nut	Size Screw S. A. E. Head and Nut	Milled Openings	Length	PRICE		No.
					Semi- Finished	Finished	
1104	¼	¼	¾-⅞	4½	\$0 21	\$0 32	1104
1111	⅝-¾	⅝-¾	½-⅞	5	25	38	1111
1119Sp.	⅞	⅞	¾-1⅞	6¾	37	56	1119Sp.
1126	½-¾	½-¾	¾-⅞	8	45	68	1126
1136Sp.	⅝	⅝-¾	1⅞-1⅞	10	68	1 08	1136Sp.
Price Per Set in Pasteboard Box					1 96	3 02	

Bag \$0 45.

When ordering specify Number, Model and Finish

WRENCH SET

No. 9



FOR HEX. HEAD CAP SCREWS AND U. S. STD. NUTS FOR SAME

PRICE LIST

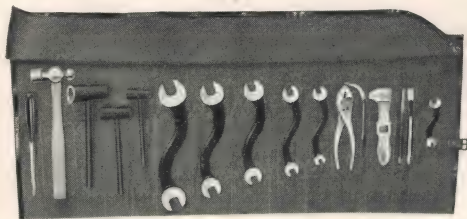
No.	Size of Screw	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi-Finished	Finished	
2005 Cap	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{16}$ - $\frac{1}{2}$	$7\frac{1}{8}$	$\frac{1}{4}$	\$0 34	\$0 47	2005 Cap
2012 Cap	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{9}{16}$ - $\frac{3}{8}$	$8\frac{1}{4}$	$\frac{5}{16}$	43	58	2012 Cap
2025 Cap	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{13}{16}$	$9\frac{1}{4}$	$\frac{3}{8}$	55	72	2025 Cap
2035 Cap	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{1}{2}$ -1	$10\frac{3}{8}$	$\frac{1}{2}$	70	90	2035 Cap
2008 Nut	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{2}$ - $\frac{13}{32}$	$7\frac{1}{8}$	$\frac{1}{4}$	34	47	2008 Nut
2022 Nut	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{1}{2}$ - $\frac{23}{32}$	$9\frac{1}{4}$	$\frac{3}{8}$	55	72	2022 Nut
2034 Nut	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{31}{32}$	$10\frac{3}{8}$	$\frac{1}{2}$	70	90	2034 Nut
2043 Nut	$\frac{5}{8}$ - $\frac{3}{4}$	1 $\frac{1}{4}$ -1 $\frac{1}{4}$	12	$\frac{1}{2}$	1 00	1 30	2043 Nut
Price Per Set in Pasteboard Box					4 61	6 06	

Bag \$0 70

When ordering specify Number, Model and Finish

TOOL KIT

No. 10



This Kit is made up of B. & S. drop-forged tools exclusively, and consists of a

- 9-inch "All Steel" Screw-driver,
- 8-oz. Ball Pein Hammer,
- 6-inch Nickel Pliers,
- Model D Nickel Adjustable Wrench.

Set No. 1 of 6 Full Finish Light Service "S" Wrenches. Set No. 3 or No. 4 substituted without extra charge when so specified.

4-in. $22\frac{1}{2}^\circ$ Angle Double End Machine Wrench with $\frac{1}{4}$ - $\frac{3}{8}$ openings.

Set of 3 Double End Socket Wrenches, comprising 6 openings, $\frac{1}{2}$ and $\frac{3}{16}$, $\frac{1}{16}$ and $\frac{3}{4}$, $\frac{7}{8}$ and $\frac{15}{16}$.

- $\frac{3}{8}$ -inch Cold Chisel,
- Cotter Pin Tool,
- Punch.

The bag is made of good quality canvas and the edges are bound with tape.

PRICE COMPLETE

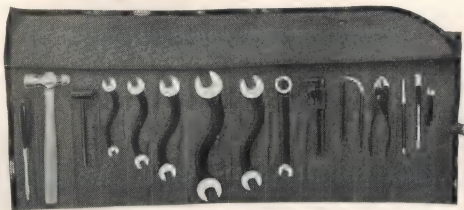
Including bag and tools as described above	\$6 25
Including bag and tools, substituting Set No. 2	6 75

We will also quote on kits comprising any variation from the tools stated above that may be suggested.

When ordering specify Number, Model and Finish

TOOL KIT

No. 11



This Kit is made up of B & S. drop-forged tools exclusively,
and consists of a

9-inch "All Steel" Screw-driver,

8-oz. Ball Pein Hammer

Set of 5 Light Service Wrenches, Semi-finished, Set No. 4,

Double opening Socket Wrench, openings, $\frac{1}{2}$ inch and $\frac{3}{8}$ inch,

Spark Plug Wrench, Semi-finished, openings, $\frac{7}{8}$ inch and $\frac{3}{4}$ inch,

6-inch Semi-finished Auto Wrench.

6-inch Kit Pliers, Black finish,

Offset Screw-driver,

$\frac{3}{8}$ -inch Cold Chisel,

$\frac{3}{8}$ -inch Punch,

Cotter Pin Tool,

Wrench for Prest-o-lite Tank, $\frac{3}{16}$ inch opening.

The Bag is made of good quality canvas, bound edges.

PRICE LIST

Including Bag and Tools as described above \$4 90

When ordering specify Number, Model and Finish

TOOL KIT FOR FORD CARS

No. 12



This Kit is made up of Tools specially adapted to use on Ford Cars. The bag is made of canvas, bound edges, and leather strap. The Tools are as follows:

- 1 8-inch Auto Wrench
- 1 6-inch Combination Pliers
- 1 9-inch Screw-driver
- 1 Double head Wrench, openings $\frac{1}{16}$ inch and $1\frac{1}{8}$ inch
- 1 Double head Wrench, openings $\frac{3}{8}$ inch and $\frac{1}{2}$ inch
- 1 Double head Spark Plug Wrench, $\frac{7}{8}$ inch and $\frac{1}{2}$ inch
- 1 Double head Hub Cap Wrench, $1\frac{1}{16}$ inch and $1\frac{1}{8}$ inch
- 1 Socket Wrench, opening $\frac{3}{8}$ inch
- 1 8-oz. Ball Pein Hammer
- 1 Chisel, 1 Punch, 1 Cotter Pin Tool, 1 File

PRICE LIST

Including Bag and Tools as described above \$3 50

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

FORD SPECIAL MACHINE AND
SOCKET WRENCH SET

No. 13



An open end wrench and a Socket Wrench to fit every nut on the Ford car—a Spark Plug Wrench to fit spark plug furnished with Ford car.

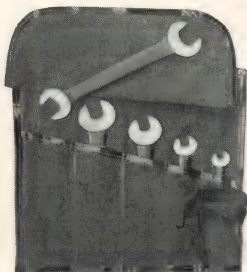
800 Socket Wrench,
801 Socket Wrench,
811 Spark Plug Wrench,
2007 General Service Wrench,
2017 General Service Wrench.

Price complete, with bag \$2 80

When ordering specify Number, Model and Finish

WRENCH SET

No. 14



"CHECK NUT" OR "THIN" WRENCHES

FOR A.L.A.M. STANDARD NUTS AND CAP SCREWS

PRICE LIST

No.	A.L.A.M. Std. Nuts and Cap Screws—Size Bolt or Screw	Milled Openings	Length	Thickness of Heads	PRICE		No.
					Semi- Finished	Finished	
1350 W	$\frac{1}{4}$ — $\frac{3}{16}$	$\frac{3}{8}$ — $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{3}{32}$	\$0 25	\$0 38	1350 W
1353 W	$\frac{3}{8}$ — $\frac{7}{16}$	$\frac{9}{16}$ — $1\frac{1}{16}$	$5\frac{1}{2}$	$\frac{3}{16}$	32	48	1353 W
1356 W	$\frac{1}{2}$ — $\frac{9}{16}$	$\frac{3}{4}$ — $\frac{7}{8}$	7	$\frac{3}{32}$	40	60	1356 W
1359 W	$\frac{7}{8}$ — $1\frac{1}{16}$	$1\frac{1}{16}$ —1	$8\frac{1}{2}$	$\frac{1}{4}$	56	80	1359 W
1362 W	$\frac{3}{4}$ — $\frac{7}{8}$	$1\frac{1}{8}$ — $1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{3}{32}$	84	1 15	1362 W
Price Per Set in Pasteboard Box . .					2 37	3 41	

Bag \$0 45

When ordering specify Number, Model and Finish

WRENCH SET

No. 15

FOR HEXAGON HEAD CAP SCREWS AND NUTS FOR SAME



PRICE LIST

No.	Size of Screw Inches	Milled Openings Inches	Length Inches	Thickness of Head Inches	PRICE			No.
					Unfinished	Semi- Finished	Finished	
1109 Cap	$\frac{1}{4}-\frac{5}{16}$	$\frac{3}{16}-\frac{1}{2}$	5	$\frac{5}{16}$	\$0 17	\$0 25	\$0 38	1109 Cap
1116 Cap	$\frac{3}{8}-\frac{1}{2}$	$\frac{3}{16}-\frac{5}{8}$	6	$\frac{1}{4}$	21	31	46	1116 Cap
1125 Cap	$\frac{1}{2}-\frac{3}{4}$	$\frac{3}{4}-\frac{13}{16}$	8	$\frac{1}{4}$	30	45	68	1125 Cap
1133 Cap	$\frac{5}{8}-\frac{3}{4}$	$\frac{7}{8}-1$	9	$\frac{1}{2}$	37	55	85	1133 Cap
1112 Nut	$\frac{1}{4}-\frac{5}{16}$	$\frac{1}{2}-\frac{19}{32}$	5	$\frac{3}{16}$	17	25	38	1112 Nut
1123 Nut	$\frac{3}{8}-\frac{1}{2}$	$\frac{1}{2}-\frac{23}{32}$	$6\frac{3}{4}$	$\frac{3}{8}$	25	37	56	1123 Nut
1132 Nut	$\frac{1}{2}-\frac{3}{4}$	$\frac{3}{4}-\frac{31}{32}$	9	$\frac{1}{2}$	37	55	85	1132 Nut
1140 Nut	$\frac{5}{8}-\frac{3}{4}$	$1\frac{1}{16}-1\frac{1}{4}$	$11\frac{1}{2}$	$\frac{1}{2}$	66	96	1 40	1140 Nut
Price per Set in Pasteboard Box					2 50	3 69	5 56	

Bag, 70 cents

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

BIT-BRACE SOCKET WRENCH SET

No. 16



PRICE LIST

Number	U. S. Standard Bolt Size	Openings	Length	Price Finished	Number
923A	$\frac{1}{4}$	$\frac{3}{16}$	$4\frac{3}{4}$	\$0 65	923A
924B	$\frac{3}{16}$	$\frac{3}{16}$	$5\frac{1}{4}$	72	924B
925B	$\frac{3}{8}$	$\frac{4}{16}$	$5\frac{3}{4}$	89	925B
926A	$\frac{7}{16}$	$\frac{5}{16}$	$5\frac{3}{4}$	97	926A
926C	$\frac{1}{2}$	$\frac{5}{16}$	6	1 10	926C
Handle	..	..	..	60	Handle
Bag	..	..	..	60	Bag
Complete	..	..	..	5 50	

When ordering specify Number, Model and Finish

WRENCH SET

No. 44

FOR HEXAGON HEAD CAP SCREWS AND NUTS FOR SAME



PRICE LIST

No.	Size of Screw Inches	Milled Opening Inches	Length Inches	Thickness of Head Inches	PRICE			No.
					Unfinished	Semi- Finished	Finished	
1557 Cap	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{1}{16}$ - $\frac{1}{2}$	$4\frac{3}{4}$	$\frac{1}{4}$	\$0 17	\$0 25	\$0 38	1557 Cap
1562 Cap	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{3}{16}$ - $\frac{3}{8}$	$5\frac{3}{4}$	$\frac{3}{16}$	21	31	46	1562 Cap
1568 Cap	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{13}{16}$	7	$\frac{11}{32}$	27	40	60	1568 Cap
1575 Cap	$\frac{3}{8}$ - $\frac{3}{4}$	$\frac{3}{8}$ -1	$9\frac{1}{2}$	$\frac{3}{16}$	50	72	1 05	1575 Cap
1559 Nut	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{1}{2}$ - $\frac{13}{16}$	$5\frac{3}{4}$	$\frac{3}{16}$	21	31	46	1559 Nut
1566 Nut	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{1}{16}$ - $\frac{25}{32}$	7	$\frac{11}{32}$	27	40	60	1566 Nut
1574 Nut	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{3}{8}$ - $\frac{21}{32}$	$8\frac{1}{4}$	$\frac{3}{8}$	36	53	78	1574 Nut
1580 Nut	$\frac{5}{8}$ - $\frac{3}{4}$	$1\frac{1}{16}$ - $1\frac{1}{4}$	11	$\frac{1}{2}$	68	96	1 40	1580 Nut
Price Per Set in Pasteboard Box					2 67	3 88	5 73	

Bag, 70 cents.

When ordering specify Number, Model and Finish

THE B. & S. DISPLAY SALES-BOARD FOR WRENCHES

On the following pages are shown Wrench Display Sales-Boards, Numbers 1, 2, 3, 4, 5, and 6.

These Boards are designed to carry a stock of wrenches of the styles and sizes most in demand and to give the largest variety of openings with the fewest duplications.

Boards Numbers 1 and 2 are arranged for the hardware dealer; the wrenches being milled with openings for U. S. S. Nuts; Hexagon and Square Cap Screws and Set Screws.

On Boards Numbers 3 and 4 are arranged wrenches for Auto Supply Dealers and Garages, same having S. A. E. and A. L. A. M. Standard openings.

Number 5 Board carries a line of T Handle Socket Wrenches with Hexagon openings in sizes which are most in demand by both Hardware and Auto Supply Dealers.

Board Number 6 carries Wrenches in Whitworth Standard and Metric openings for use on Automobiles and Machinery of foreign manufacture.

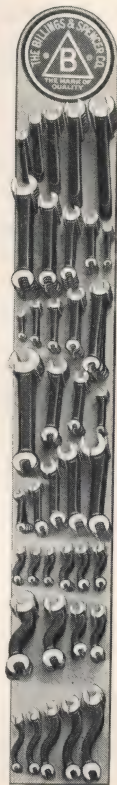
The Dealer is entitled to one of these boards free on condition that he purchase the wrenches complete as per list and in lots of six each of a size except Number 5 board which carries three of the smaller sizes of wrenches and two of the larger wrenches.

A printed card carrying full information is furnished with each board.

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 1



WRENCHES ON DISPLAY SALES-BOARD

No. 1

ENGINEERS' WRENCHES

15° Angle Single Head

No	Bolt Sizes	Milled Openings	Length	Price, Finished	No.
1003	$\frac{1}{4}$	$\frac{1}{2}$	5	\$0 28	1003
1007	$\frac{3}{8}$	$\frac{11}{16}$	6 $\frac{1}{2}$	38	1007
1011	$\frac{1}{2}$	$\frac{7}{8}$	8	54	1011
1014	$\frac{5}{8}$	1 $\frac{1}{4}$	9 $\frac{1}{4}$	82	1014
1016	$\frac{3}{4}$	1 $\frac{1}{4}$	11	1 05	1016

15° Angle Double Head

No.	Bolt Sizes	Milled Openings	Length	Price, Finished	No.
1107	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	\$0 32	1107
1118	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{13}{32}$ - $\frac{11}{16}$	6	46	1118
1128	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{23}{32}$ - $\frac{7}{8}$	8	68	1128
1136	$\frac{3}{16}$ - $\frac{5}{8}$	$\frac{31}{32}$ -1 $\frac{1}{16}$	10	1 08	1136
1140	$\frac{3}{8}$ - $\frac{3}{4}$	1 $\frac{1}{16}$ -1 $\frac{1}{4}$	11 $\frac{1}{2}$	1 40	1140

No.	Square Head Set Screw	Hex. Head Cap Screw	Milled Openings	Length	Price Finished	No.
1100A	$\frac{1}{4}$ - $\frac{3}{16}$	. . .	$\frac{1}{4}$ - $\frac{3}{16}$	3 $\frac{1}{2}$	\$0 23	1100A
1104	$\frac{3}{8}$ - $\frac{1}{4}$	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{3}{8}$ - $\frac{3}{16}$	4 $\frac{1}{2}$	32	1104
1111	. . .	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{3}{16}$	5	38	1111
1120	. . .	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{5}{8}$ - $\frac{3}{4}$	6 $\frac{3}{4}$	56	1120
1133	. . .	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{7}{8}$ -1	9	85	1133
1109	. . .	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{1}{16}$ - $\frac{1}{2}$	5	38	1109
1116	. . .	$\frac{3}{8}$ - $\frac{3}{16}$	$\frac{3}{16}$ - $\frac{5}{8}$	6	46	1116
1125	. . .	$\frac{1}{2}$ - $\frac{3}{16}$	$\frac{3}{4}$ - $\frac{13}{16}$	8	68	1125
1142	. . .	$\frac{7}{8}$ -1	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	13 $\frac{1}{2}$	1 90	1142

TEXTILE WRENCHES

22 $\frac{1}{2}$ ° Angle Double Head

No.	Bolt Sizes	Milled Openings	Length	Price, Finished	No.
1555	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{3}{4}$	\$0 38	1555
1564	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{13}{32}$ - $\frac{11}{16}$	5 $\frac{3}{4}$	46	1564
1571	$\frac{1}{16}$ - $\frac{1}{2}$	$\frac{23}{32}$ - $\frac{7}{8}$	8 $\frac{1}{4}$	78	1571
1578	$\frac{3}{16}$ - $\frac{5}{8}$	$\frac{31}{32}$ -1 $\frac{1}{16}$	9 $\frac{1}{2}$	1 05	1578
1581	$\frac{3}{8}$ - $\frac{3}{4}$	1 $\frac{1}{16}$ -1 $\frac{1}{4}$	11	1 40	1581

When ordering specify Number, Model and Finish

WRENCHES ON DISPLAY SALES-BOARD

No. 1—Continued

22½° ANGLE DOUBLE HEAD "S" WRENCH

No.	Square Head Set Screw	Hex. Head Cap Screw	Milled Openings	Length	Price Finished	No.
1401S	$\frac{1}{4}$ — $\frac{3}{8}$	. . .	$\frac{1}{4}$ — $\frac{3}{8}$	4	\$0 32	1401S
1402	$\frac{5}{16}$ — $\frac{3}{16}$	$\frac{1}{8}$ — $\frac{1}{4}$	$\frac{5}{16}$ — $\frac{3}{16}$	4	32	1402
1404	. . .	$\frac{3}{16}$ — $\frac{1}{4}$	$\frac{3}{8}$ — $\frac{7}{16}$	4	32	1404
1409	. . .	$\frac{1}{4}$ — $\frac{5}{16}$	$\frac{7}{16}$ — $\frac{1}{2}$	5	42	1409
1411	. . .	$\frac{5}{16}$ — $\frac{3}{8}$	$\frac{1}{2}$ — $\frac{9}{16}$	5	42	1411
1413	. . .	$\frac{5}{16}$ — $\frac{7}{16}$	$\frac{1}{2}$ — $\frac{5}{8}$	5	42	1413
1417	. . .	$\frac{3}{8}$ — $\frac{1}{2}$	$\frac{9}{16}$ — $\frac{3}{4}$	6 $\frac{1}{4}$	56	1417
1421	. . .	$\frac{7}{16}$ — $\frac{9}{16}$	$\frac{5}{8}$ — $\frac{13}{16}$	6 $\frac{1}{4}$	56	1421
1433	. . .	$\frac{5}{8}$ — $\frac{3}{4}$	$\frac{7}{8}$ —1	9	1 00	1433
1442	. . .	$\frac{7}{8}$ —1	1 $\frac{1}{8}$ —1 $\frac{1}{4}$	10 $\frac{1}{2}$	1 35	1442

LIGHT SERVICE WRENCHES

No.	Square Head Set Screw	Hex. Head Cap Screw	Milled Openings	Length.	Price Finished	No.
2000	$\frac{3}{8}$ — $\frac{7}{16}$	$\frac{3}{16}$ — $\frac{1}{4}$	$\frac{3}{8}$ — $\frac{7}{16}$	6 $\frac{1}{4}$	\$0 38	2000
2007	. . .	$\frac{5}{16}$ — $\frac{3}{8}$	$\frac{1}{2}$ — $\frac{9}{16}$	7 $\frac{1}{8}$	47	2007
2017	. . .	$\frac{7}{16}$	$\frac{5}{8}$ — $\frac{11}{16}$	8 $\frac{1}{4}$	58	2017
2025	. . .	$\frac{1}{2}$ — $\frac{9}{16}$	$\frac{3}{4}$ — $\frac{13}{16}$	9 $\frac{1}{4}$	72	2025
2033	. . .	$\frac{5}{8}$	$\frac{7}{8}$ — $\frac{15}{16}$	10 $\frac{3}{8}$	90	2033

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 2



WRENCHES ON DISPLAY SALES-BOARD

No. 2

ENGINEERS' WRENCHES

15° Angle Double Head

No.	Square Head Set Screw	Hex. Head Cap Screw	Milled Openings	Length	Price Finished	No.
1100A	$\frac{1}{4}$ - $\frac{5}{16}$		$\frac{1}{4}$ - $\frac{5}{16}$	3 $\frac{1}{2}$	\$0 23	1100A
1104	$\frac{3}{8}$ - $\frac{1}{4}$	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{3}{8}$ - $\frac{1}{4}$	4 $\frac{1}{2}$	32	1104

No.	Bolt Sizes	Milled Openings	Length	Price, Finished	No.
1107	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	\$0 32	1107
1118	$\frac{5}{16}$ - $\frac{3}{8}$	$\frac{13}{32}$ - $\frac{11}{16}$	6	46	1118
1128	$\frac{3}{16}$ - $\frac{1}{2}$	$\frac{23}{32}$ - $\frac{1}{8}$	8	68	1128
1136	$\frac{9}{16}$ - $\frac{5}{8}$	$\frac{31}{32}$ -1 $\frac{1}{16}$	10	1 08	1136

No.	Hex. Head Cap Screw	Milled Openings	Length	Price Finished	No.
1109	$\frac{1}{4}$ - $\frac{3}{16}$	$\frac{1}{16}$ - $\frac{1}{2}$	5	\$0 38	1109
1111	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{9}{16}$	5	38	1111
1116	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{9}{16}$ - $\frac{5}{8}$	6	46	1116
1125	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{13}{16}$	8	68	1125
1133	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{7}{8}$ -1	9	85	1133

TEXTILE WRENCHES

22½° Angle Double Head

No.	Bolt Sizes	Milled Openings	Length	Price, Finished	No.
1555	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{3}{4}$	\$0 38	1555
1564	$\frac{5}{16}$ - $\frac{3}{8}$	$\frac{13}{32}$ - $\frac{11}{16}$	5 $\frac{3}{4}$	46	1564
1571	$\frac{1}{2}$ - $\frac{1}{2}$	$\frac{23}{32}$ - $\frac{1}{8}$	8 $\frac{1}{4}$	78	1571
1578	$\frac{9}{16}$ - $\frac{5}{8}$	$\frac{31}{32}$ -1 $\frac{1}{16}$	9 $\frac{1}{2}$	1 05	1578
1581	$\frac{5}{8}$ - $\frac{7}{8}$	1 $\frac{1}{16}$ -1 $\frac{1}{16}$	11	1 40	1581

LIGHT SERVICE WRENCHES

No.	Square Head Set Screw	Hex. Head Cap Screw	Milled Openings	Length	Price Finished	No.
2000	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{3}{8}$ - $\frac{7}{16}$	6 $\frac{1}{4}$	\$0 38	2000
2007		$\frac{5}{16}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{9}{16}$	7 $\frac{1}{8}$	47	2007
2017		$\frac{1}{4}$	$\frac{5}{8}$ -1 $\frac{1}{16}$	8 $\frac{1}{4}$	58	2017
2025		$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{13}{16}$	9 $\frac{1}{4}$	72	2025
2033		$\frac{5}{8}$	$\frac{7}{8}$ - $\frac{15}{16}$	10 $\frac{3}{8}$	90	2033

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 3



WRENCHES ON DISPLAY SALES-BOARD

No. 3

ENGINEERS' WRENCHES

15° Angle Double Head

No.	A. L. A. M. Std. Nuts and Cap Screws Size Bolt or Screw	Milled Openings	Length	Price, Finished	No.
1105	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{3}{8}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	\$0 32	1105
1118 Sp.	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{9}{16}$ - $\frac{11}{16}$	6	46	1118 Sp.
1126	$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{3}{4}$ - $\frac{7}{8}$	8	68	1126
1132 Sp.	$\frac{5}{8}$ - $\frac{11}{16}$	$\frac{13}{16}$ - 1	9	85	1132 Sp.
1140 Sp.	$\frac{3}{4}$ - $\frac{7}{8}$	1 $\frac{1}{8}$ - 1 $\frac{1}{4}$	11 $\frac{1}{2}$	1 40	1140 Sp.

"CHECK NUT" OR "THIN" WRENCHES

15° Angle Double Head

No.	Diam. of Screw	Milled Openings	Length	Price, Finished	No.
1350	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	\$0 38	1350
1352	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{2}$ - $\frac{19}{32}$	4 $\frac{1}{2}$	38	1352
1354	$\frac{5}{16}$ - $\frac{3}{8}$	$\frac{19}{32}$ - $\frac{11}{16}$	5 $\frac{1}{2}$	48	1354
1356	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{11}{16}$ - $\frac{25}{32}$	7	60	1356
1358	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{25}{32}$ - $\frac{7}{8}$	7	60	1358

ENGINEERS' WRENCHES

15° Angle Double Head

No.	Size Bolts for U. S. Std. Nuts	Milled Openings	Length	Price, Finished	No.
1101	$\frac{1}{8}$ - $\frac{3}{16}$	$\frac{5}{16}$ - $\frac{13}{32}$	4	\$0 26	1101
1107	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{13}{32}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	32	1107
1112	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{2}$ - $\frac{19}{32}$	5	38	1112
1118	$\frac{5}{16}$ - $\frac{3}{8}$	$\frac{19}{32}$ - $\frac{11}{16}$	6	46	1118
1123	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{11}{16}$ - $\frac{25}{32}$	6 $\frac{3}{4}$	56	1123
1128	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{25}{32}$ - $\frac{7}{8}$	8	68	1128
1134	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{7}{8}$ - 1 $\frac{1}{16}$	10	1 08	1134
1140	$\frac{5}{8}$ - $\frac{3}{4}$	1 $\frac{1}{16}$ - 1 $\frac{1}{4}$	11 $\frac{1}{2}$	1 40	1140

No.	For Hex. Hd. Cap Screws and U. S. Nuts for Same	Milled Openings	Length	Price, Finished	No.
1109	$\frac{1}{4}$	$\frac{3}{16}$ - $\frac{1}{2}$	5	\$0 38	1109
1112	$\frac{5}{16}$	$\frac{1}{2}$ - $\frac{19}{32}$	5	38	1112
1118 Sp.	$\frac{3}{8}$	$\frac{9}{16}$ - $\frac{11}{16}$	6	46	1118 Sp.
1120 Sp.	$\frac{7}{16}$	$\frac{9}{8}$ - $\frac{25}{32}$	6 $\frac{3}{4}$	56	1120 Sp.
1126	$\frac{1}{2}$	$\frac{3}{4}$ - $\frac{7}{8}$	8	68	1126
1134	$\frac{5}{8}$	$\frac{7}{8}$ - 1 $\frac{1}{16}$	10	1 08	1134
1139	$\frac{3}{4}$	1 - 1 $\frac{1}{4}$	11 $\frac{1}{2}$	1 40	1139

When ordering specify Number, Model and Finish

WRENCHES ON DISPLAY SALES-BOARD

No. 3—Continued

LIGHT SERVICE WRENCHES

No.	Milled Openings	Length	Price, Finished	No.
2000	$\frac{3}{8}$ — $\frac{7}{16}$	6 $\frac{1}{4}$	\$0 38	2000
2007	$\frac{1}{2}$ — $\frac{9}{16}$	7 $\frac{1}{8}$	47	2007
2017	$\frac{5}{8}$ — $\frac{11}{16}$	8 $\frac{1}{4}$	58	2017
2025	$\frac{3}{4}$ — $\frac{13}{16}$	9 $\frac{1}{4}$	72	2025
2033	$\frac{7}{8}$ — $\frac{15}{16}$	10 $\frac{3}{8}$	90	2033

No.	A.L.A.M. Std. Nuts and Cap Screws Size Bolt or Screw	Milled Openings	Length	Price, Finished	No.
2001	$\frac{1}{4}$ — $\frac{5}{16}$	$\frac{3}{8}$ — $\frac{1}{2}$	6 $\frac{1}{4}$	\$0 38	2001
2013	$\frac{3}{8}$ — $\frac{7}{16}$	$\frac{9}{16}$ — $\frac{11}{16}$	8 $\frac{1}{4}$	58	2013
2026	$\frac{1}{2}$ — $\frac{9}{16}$	$\frac{3}{4}$ — $\frac{7}{8}$	9 $\frac{1}{4}$	72	2026
2038	$\frac{5}{8}$ — $\frac{11}{16}$	$\frac{13}{16}$ —1	12	1 30	2038
2044	$\frac{3}{4}$ — $\frac{7}{8}$	1 $\frac{1}{8}$ —1 $\frac{1}{4}$	12	1 30	2044

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 4



WRENCHES ON DISPLAY SALES-BOARD

No. 4

LIGHT SERVICE WRENCHES

No.	A. L. A. M. Std. Nuts and Cap Screws Size Bolt or Screw	S. A. E. Std. Nuts and Cap- Screws Size Bolt or Screw	Milled Openings	Length	Price Finished	No.
2000	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}-\frac{7}{16}$	$6\frac{1}{4}$	\$0 38	2000
2007	$\frac{5}{16}-\frac{3}{8}$	$\frac{5}{16}-\frac{3}{8}$	$\frac{1}{2}-\frac{9}{16}$	$7\frac{1}{8}$	47	2007
2017	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}-\frac{11}{16}$	$8\frac{1}{4}$	58	2017
2026	$\frac{1}{2}-\frac{9}{16}$	$\frac{1}{2}-\frac{9}{16}$	$\frac{3}{4}-\frac{7}{8}$	$9\frac{1}{4}$	72	2026
2038Sp.	$\frac{5}{8}$	$\frac{5}{8}-\frac{3}{4}$	$\frac{15}{16}-1\frac{1}{16}$	12	1 30	2038Sp.

No.	A. L. A. M.	S. A. E.	Milled Openings	Length	Price Finished	No.
2000	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}-\frac{7}{16}$	$6\frac{1}{4}$	\$0 38	2000
2007	$\frac{5}{16}-\frac{3}{8}$	$\frac{5}{16}-\frac{3}{8}$	$\frac{1}{2}-\frac{9}{16}$	$7\frac{1}{8}$	47	2007
2017	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}-\frac{11}{16}$	$8\frac{1}{4}$	58	2017
2025	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}-\frac{13}{16}$	$9\frac{1}{4}$	72	2025
2033	$\frac{9}{16}-\frac{5}{8}$	$\frac{9}{16}-\frac{5}{8}$	$\frac{7}{8}-\frac{15}{16}$	$10\frac{3}{8}$	90	2033

ENGINEERS' WRENCHES

15° Angle Double Head

No.	A. L. A. M.	S. A. E.	Milled Openings	Length	Price Finished	No.
1104	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}-\frac{7}{16}$	$4\frac{1}{2}$	\$0 32	1104
1110	$\frac{3}{8}$	$\frac{1}{4}-\frac{3}{8}$	$\frac{7}{16}-\frac{9}{16}$	5	38	1110
1111	$\frac{5}{16}-\frac{3}{8}$	$\frac{5}{16}-\frac{3}{8}$	$\frac{1}{2}-\frac{9}{16}$	5	38	1111
1119Sp.	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{5}{8}-\frac{11}{16}$	$6\frac{3}{4}$	56	1119Sp.
1126	$\frac{1}{2}-\frac{9}{16}$	$\frac{1}{2}-\frac{9}{16}$	$\frac{3}{4}-\frac{7}{8}$	8	68	1126
1136Sp.	$\frac{5}{8}$	$\frac{5}{8}-\frac{3}{4}$	$\frac{15}{16}-1\frac{1}{16}$	10	1 08	1136Sp.

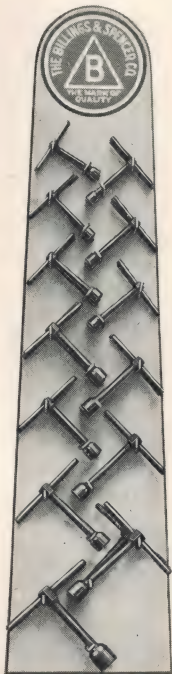
No.	A. L. A. M.	S. A. E.	Milled Openings	Length	Price Finished	No.
1114	$\frac{5}{16}-\frac{7}{16}$	$\frac{5}{16}$	$\frac{1}{2}-\frac{11}{16}$	6	\$0 46	1114
1119	...	...	$\frac{13}{16}-\frac{25}{32}$	$6\frac{1}{4}$	56	1119
1120	$\frac{1}{2}$	$\frac{3}{16}-\frac{1}{2}$	$\frac{5}{8}-\frac{3}{4}$	$6\frac{3}{4}$	56	1120
1133	$\frac{9}{16}-\frac{11}{16}$	$\frac{9}{16}-\frac{11}{16}$	$\frac{7}{8}-1$	9	85	1133
1140	...	$\frac{3}{4}-\frac{7}{8}$	$1\frac{1}{16}-1\frac{1}{4}$	$11\frac{1}{2}$	1 40	1140

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO , HARTFORD, CONN.

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 5



WRENCHES ON DISPLAY SALES-BOARD

No. 5

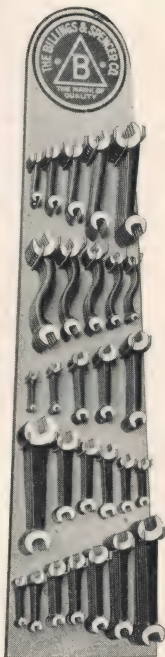
Wrench No.	HEXAGON OPENINGS			Length Over All	Diam. Head	A. L. A. M.	S. A. E.	Price Fin.	Wrench No.
	For U. S. Standard Nut Size Bolt	For Cap Screw Diam. Screw	Short Diam. Br'd'd Opening						
723A	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{31}{64}$	$5\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	\$0 65	723A
724A	..	$\frac{3}{8}$	$\frac{37}{64}$	$5\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	72	724A
724B	$\frac{5}{16}$	..	$\frac{39}{64}$	$5\frac{3}{4}$	$\frac{7}{8}$	..	..	72	724B
725A	..	$\frac{3}{16}$	$\frac{41}{64}$	$6\frac{1}{8}$	1	..	$\frac{3}{16}$	79	725A
725B	$\frac{3}{8}$	..	$\frac{45}{64}$	$6\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{16}$	..	89	725B
725C	..	$\frac{1}{2}$	$\frac{49}{64}$	$6\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	89	725C
726A	$\frac{3}{16}$	..	$\frac{51}{64}$	7	$1\frac{1}{4}$	..	..	97	726A
726B	..	$\frac{9}{16}$	$\frac{53}{64}$	7	$1\frac{1}{4}$	..	..	97	726B
726C	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{57}{64}$	7	$1\frac{1}{4}$	$\frac{9}{16}$	$\frac{9}{16}$	1 10	726C
727A	$\frac{9}{16}$	..	$\frac{63}{64}$	$7\frac{7}{8}$	$1\frac{1}{2}$	..	..	1 24	727A
727B	..	$\frac{3}{4}$	$1\frac{1}{64}$	$7\frac{7}{8}$	$1\frac{1}{2}$	$\frac{11}{16}$	$\frac{11}{16}$	1 24	727B
728A	$\frac{5}{8}$	..	$1\frac{3}{64}$	$8\frac{5}{8}$	$1\frac{3}{8}$	..	$\frac{3}{4}$	1 40	728A
729A	$\frac{3}{4}$	1	$1\frac{19}{32}$	$9\frac{1}{8}$	$1\frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{8}$	1 90	729A

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN

THE BILLINGS & SPENCER DISPLAY SALES-BOARD
FOR WRENCHES

No. 6



THE B. & S. DISPLAY SALES-BOARD FOR WRENCHES
No. 6

For Whitworth Standard Bolts and Hexagon Head Set Screws
and Metric Automobile Bolts and Screws

TEXTILE WRENCHES
22½° Angle Double Head

No.	Bolt Sizes	Hexagon Head Set Screws	Price Full F.	No.
1555Sp.	3/16-1/4	3/16-1/4	\$0 38	1555Sp.
1564Sp.	3/16-3/8	3/16-3/8	46	1564Sp.
1571Sp.	3/16-1/2	3/16-1/2	78	1571Sp.
1578Sp.	3/16-5/8	3/16-5/8	1 05	1578Sp.
1581Sp.	3/4-7/8	3/4-7/8	1 40	1581Sp.

LIGHT SERVICE WRENCHES
22½° Angle Double Head

No.	Bolt Sizes	Hexagon Head Set Screws	Price Full F.	No.
2001Sp.	3/16-1/4	3/16-1/4	\$0 38	2001Sp.
2009Sp.	1/4-3/16	1/4-3/16	47	2009Sp.
2018Sp.	3/16-3/8	3/16-3/8	58	2018Sp.
2026Sp.	3/8-7/16	3/8-7/16	72	2026Sp.
2035Sp.	3/16-1/2	3/16-1/2	90	2035Sp.

ENGINEERS' WRENCHES
15° Angle Double Head
Metric Measurements

No.	Milled Opening	Price Full F.	No.
1100Asp.	6mm.-8mm.	\$0 23	1100Asp.
1104Sp.	10mm.-12mm.	32	1104Sp.
1116Sp.	14mm.-16mm.	46	1116Sp.
1122Sp.	18mm.-20mm.	56	1122Sp.
1131Sp.	22mm.-25mm.	85	1131Sp.

CHECK NUT OR THIN WRENCHES FOR AUTOMOBILES
15° Angle Double Head

No.	Bolt Sizes	Hexagon Head Set Screws	Price Full F.	No.
1350Sp.	3/16-1/4	3/16-1/4	\$0 38	1350Sp.
1354Sp.	3/16-3/8	3/16-3/8	48	1354Sp.
1356Sp.	3/8-7/16	3/8-7/16	60	1356Sp.
1358Sp.	7/16-1/2	7/16-1/2	60	1358Sp.
1361Sp.	1/2-3/4	1/2-3/4	80	1361Sp.
1366Sp.	3/4-7/8	3/4-7/8	1 75	1366Sp.

When ordering specify Number, Model and Finish

ENGINEERS' WRENCHES

15° Angle Double Head

No.	Bolt Sizes	Hexagon Head Set Screws	Price Full F	No.
1107Sp.	$\frac{3}{16}$ - $\frac{1}{4}$	$\frac{3}{16}$ - $\frac{1}{4}$	\$0 32	1107Sp.
1112Sp.	$\frac{1}{4}$ - $\frac{5}{16}$	$\frac{1}{4}$ - $\frac{5}{16}$	38	1112Sp.
1118Sp.	$\frac{3}{16}$ - $\frac{3}{8}$	$\frac{3}{16}$ - $\frac{3}{8}$	46	1118Sp.
1123Sp.	$\frac{3}{8}$ - $\frac{7}{16}$	$\frac{3}{8}$ - $\frac{7}{16}$	56	1123Sp.
1128Sp.	$\frac{7}{16}$ - $\frac{1}{2}$	$\frac{7}{16}$ - $\frac{1}{2}$	68	1128Sp.
1134Sp.	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{1}{2}$ - $\frac{5}{8}$	1 08	1134Sp.
1140Sp.	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{5}{8}$ - $\frac{3}{4}$	1 40	1140Sp.

When ordering specify Number, Model and Finish

LEVER OR CRANK FORGINGS



We also furnish these Forgings in machined state when desired in quantity. Send specifications when ordering machined.

SIZE AND PRICE LIST

No.	Length from C. to C.	Diameter of Hub	Diameter Small End	Thickness of Hub	Thickness Small End	Price, each Forged State	No.
1	7½ in.	1½ in.	1⅛ in.	⅞ in.	⅜ in.	\$0 35	1
2	6⅛ in.	1⅞ in.	⅞ in.	⅞ in.	⅜ in.	30	2

BINDER-SCREW HANDLES

For ½-Inch and ⅝-Inch Set Screws



For Use on Binder and Gib Screws

SIZE AND PRICE LIST

No.	Length	Width of Head	Thickness of Head	Length of Openings	Forged Openings	Price, Forged State	No.
1	3⅞ in.	1 in.	½ in.	¾ in.	⅞ in.	\$0 08	1
2	4¼ in.	1¼ in.	⅝ in.	1 in.	⅞ in.	12	2

When ordering specify Number, Model and Finish

DROP-FORGED STEEL SNAP GAUGE BLANKS



These Gauge Blanks are drop-forged from the Best Tool Steel and carefully annealed. The allowance for finish on these Blanks is so arranged that all intermediate sizes between those listed can be secured. Sizes $3\frac{1}{8}$ in., $3\frac{1}{2}$ in. and 4 in. are without handles.

SIZE AND PRICE LIST

Size, Inches	FORGING SIZE		Price, Each	Size, Inches
	Between Inside Faces, Inches	Between Outside Faces, Inches		
$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{2}$	\$0 15	$\frac{1}{4}$
$\frac{3}{8}$	$\frac{5}{16}$	$\frac{5}{8}$	20	$\frac{3}{8}$
$\frac{1}{2}$	$\frac{13}{32}$	$\frac{3}{4}$	20	$\frac{1}{2}$
$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	20	$\frac{5}{8}$
$\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{3}{16}$	25	$\frac{3}{4}$
$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$	30	$\frac{7}{8}$
1	$1\frac{1}{4}$	$1\frac{5}{8}$	35	1
$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{7}{8}$	40	$1\frac{1}{8}$
$1\frac{1}{4}$	$1\frac{1}{2}$	2	45	$1\frac{1}{4}$
$1\frac{3}{8}$	$1\frac{5}{8}$	$2\frac{1}{8}$	50	$1\frac{3}{8}$
$1\frac{1}{2}$	$1\frac{7}{8}$	$2\frac{1}{4}$	55	$1\frac{1}{2}$
$1\frac{5}{8}$	2	$2\frac{3}{8}$	60	$1\frac{5}{8}$
$1\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{1}{2}$	65	$1\frac{3}{4}$
$1\frac{7}{8}$	$2\frac{1}{4}$	$2\frac{3}{4}$	70	$1\frac{7}{8}$
2	$2\frac{1}{2}$	3	75	2
$2\frac{1}{8}$	$2\frac{3}{8}$	$3\frac{1}{8}$	80	$2\frac{1}{8}$
$2\frac{1}{4}$	$2\frac{5}{8}$	$3\frac{1}{4}$	90	$2\frac{1}{4}$
$2\frac{3}{8}$	$2\frac{7}{8}$	$3\frac{3}{8}$	1 00	$2\frac{3}{8}$
$2\frac{1}{2}$	3	$3\frac{1}{2}$	1 20	$2\frac{1}{2}$
$2\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{3}{4}$	1 40	$2\frac{3}{4}$
$3\frac{1}{2}$	$3\frac{1}{2}$	4	1 60	$3\frac{1}{2}$
4	$3\frac{3}{4}$	$4\frac{1}{2}$	1 75	4

When ordering specify Number, Model and Finish

MACHINE HANDLES



Standard Pattern



Ball Pattern

"Rough-Forged" handles are furnished just as they come from the Drop-Forging dies, and have a slight "fin" or flat spot where trimmed.

"Smooth-Forged" handles are forged in Trip Hammer dies, and are smooth enough for use, or can be polished without machining.

"Centered, Turned and Polished" are as stated; machined all over and only require fitting.

SIZE AND PRICE LIST

STANDARD PATTERN					PRICE PER 100			
No.	Extreme Length Inches	Length of Shank Inches	Diam. of Shank Rough Forged Inches	Diam. of Shank Finished Inches	Rough Forged	Smooth Forged	Centered Turned and Polished	No.
1	3 1/2	1 1/2	1 1/16	1 5/16	\$8 00	\$20 00	\$20 00	1
2	4 1/8	1 3/4	9/16	1/2	10 00	25 00	25 00	2
3	4 3/8	1 3/4	2 1/16	1 5/16	12 00	28 00	28 00	3
4	4 7/8	1 3/4	2 1/16	1 5/16	13 00	30 00	30 00	4
5	5 1/16	2	2 3/16	2 1/16	16 00	34 00	34 00	5
6	5 3/4	2 1/8	1 3/16	3/4	20 00	36 00	36 00	6
BALL PATTERN					PRICE PER 100			
1	2 3/16	1 3/16	3/16	3/8	\$ 7 00	\$23 00	\$23 00	1
2	3 1/4	3/4	1/2	1/16	9 00	25 00	25 00	2
3	3 3/8	3/4	1/2	3/16	10 00	30 00	30 00	3
4	3 15/16	3/4	1/2	3/16	13 00	32 00	32 00	4
5	4 1/4	3/8	1/2	3/16	14 00	34 00	34 00	5
6	4 3/8	1	3/16	1/2	15 00	36 00	36 00	6

When ordering specify Number, Model and Finish

DROP-FORGED THUMB SCREW BLANKS



Set Pattern



Shoulder Pattern

SIZE AND PRICE LIST PER HUNDRED

"TUMBLLED" SMOOTH

Length Under Head	DIAMETER								
	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$
$\frac{1}{4}$	\$3 40	\$3 70	\$4 00	\$4 50	\$5 10	.....	.....	.....	.....
$\frac{1}{2}$	3 55	3 85	4 15	4 65	5 25	\$6 00	\$7 00	\$9.00	.....
$\frac{3}{4}$	3 70	4 00	4 30	4 80	5 40	6 20	7 20	9 25	.....
1	3 85	4 15	4 45	4 95	5 55	6 40	7 40	9 55	\$12 25
$1\frac{1}{4}$	4 00	4 30	4 60	5 10	5 70	6 60	7 65	9 90	12 75
$1\frac{1}{2}$	4 15	4 45	4 75	5 30	5 90	6 85	7 90	10 30	13 30
$1\frac{3}{4}$	.....	4 60	4 90	5 50	6 10	7 10	8 20	10 75	13 90
2	.....	4 80	5 10	5 70	6 30	7 35	8 50	11 25	14 55
$2\frac{1}{4}$	.....	.....	5 30	5 90	6 50	7 65	8 85	11 80	15 25
$2\frac{1}{2}$	.....	.....	5 50	6 10	6 70	7 95	9 20	12 40	16 00
$2\frac{3}{4}$	.....	.....	5 70	6 30	6 95	8 25	9 60	13 05	16 80
3	.....	.....	5 90	6 50	7 20	8 60	10 10	13 75	17 65
$3\frac{1}{2}$	.....	.....	.....	6 90	7 70	9 30	11 30	15 15	19 45
4	.....	.....	.....	7 30	8 30	10 20	12 80	17 00	22 00

When ordering specify Number, Model and Finish

DROP-FORGED THUMB SCREWS THREADED



Set



Shoulder

When threaded thumb screws are ordered a commercial product is furnished, but when additional accuracy is required an extra charge consistent with the special requirements will be made,

SIZE AND PRICE LIST PER HUNDRED

DIAMETER AND U. S. STANDARD THREADS PER INCH

Length Under Head	$\frac{1}{8}$ 40	$\frac{3}{16}$ 24	$\frac{1}{4}$ 20	$\frac{5}{16}$ 18	$\frac{3}{8}$ 16	$\frac{7}{16}$ 14	$\frac{1}{2}$ 13 & 12	$\frac{9}{16}$ 12	$\frac{5}{8}$ 11
$\frac{1}{4}$	\$5 40	\$5 70	\$6 25	\$7 00	\$8 10	.....	.....	.....	.....
$\frac{1}{2}$	5 65	5 95	6 50	7 25	8 35	\$9 60	\$11 30	\$14 75	.....
$\frac{3}{4}$	5 90	6 20	6 75	7 50	8 60	9 95	11 65	15 15	.....
1	6 20	6 50	7 05	7 80	8 90	10 35	12 05	15 65	\$20 05
$1\frac{1}{4}$	6 50	6 80	7 35	8 10	9 20	10 80	12 55	16 30	20 85
$1\frac{1}{2}$	6 85	7 15	7 70	8 50	9 60	11 35	13 10	17 00	21 70
$1\frac{3}{4}$	.....	7 50	8 05	8 95	10 05	11 90	13 75	17 75	22 60
2	.....	7 95	8 50	9 40	10 50	12 45	14 40	18 65	23 65
$2\frac{1}{4}$	.....	.....	8 95	9 85	11 00	13 05	15 10	19 60	24 80
$2\frac{1}{2}$	.....	.....	9 40	10 30	11 50	13 65	15 80	20 60	26 00
$2\frac{3}{4}$	.....	.....	9 85	10 80	12 05	14 25	16 55	21 65	27 25
3	.....	.....	10 30	11 30	12 60	14 90	17 40	22 75	28 60
$3\frac{1}{2}$	.....	.....	.....	12 30	13 70	16 30	19 45	25 05	31 55
4	.....	.....	.....	13 35	15 00	18 00	22 05	28 00	35 50

Thumb Screws with U. S. Standard threads carried in stock. Any other style of threading furnished to order at special prices which will be quoted on receipt of specifications.

The Standard finish of heads of Threaded Thumb Screws is "Tumbled" Smooth.

When ordering specify Number, Model and Finish

DROP-FORGED THUMB NUT



No.	WINGS		BODY		Tap Inches	PRICE PER HUNDRED		No.
	Width Inches	Length Over-all Inches	Diameter Inches	Length Inches		Blank	Tapped	
000	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ -56	\$1 75	\$4 50	000
000 1/2	1	$\frac{1}{2}$	$\frac{3}{16}$	$\frac{5}{16}$	$\frac{1}{8}$ -40	1 75	4 50	000 1/2
00	$1\frac{1}{16}$	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ -40	2 00	5 00	00
0	$1\frac{3}{8}$	$2\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{1}{4}$ -24	2 00	5 00	0
0 1/2	$1\frac{1}{2}$	$2\frac{7}{8}$	$\frac{1}{16}$	$\frac{1}{2}$	$\frac{1}{4}$ -20	2 25	5 50	0 1/2
1	$1\frac{7}{8}$	$1\frac{15}{16}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$ -18	2 60	6 50	1
2	$2\frac{1}{2}$	$1\frac{1}{16}$	$\frac{5}{8}$	$1\frac{1}{16}$	$\frac{3}{8}$ -16	3 25	8 00	2
3	$2\frac{3}{4}$	$1\frac{3}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	$\frac{1}{16}$ -14	4 00	10 00	3
4	$2\frac{1}{2}$	$1\frac{1}{4}$	$1\frac{3}{16}$	$1\frac{1}{16}$	$\frac{1}{2}$ -13	5 00	12 50	4
5	$2\frac{1}{16}$	$1\frac{1}{4}$	$\frac{3}{8}$	$2\frac{7}{8}$	$\frac{3}{8}$ -12	6 00	15 00	5
6	$2\frac{3}{4}$	$1\frac{3}{16}$	$1\frac{1}{16}$	$\frac{1}{2}$	$\frac{5}{8}$ -11	7 25	17 00	6
7	$3\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$ -10	10 50	23 00	7

When tapped Thumb Nuts are ordered a commercial product is furnished, but when additional accuracy is required an extra charge consistent with the special requirements will be made.

Thumb Nuts tapped U. S. S. carried in stock and furnished unless otherwise specified. Special tapping to order.

When ordering specify Number, Model and Finish

DROP-FORGED WELDLESS EYE BOLTS

These Weldless Eye Bolts have been submitted to all the necessary tests, demonstrating their tensile strength and utility. They are made of the best quality of mild steel, and after forging are specially treated to increase their toughness.

PLAIN PATTERN

DIMENSIONS AND PRICE LIST



No.	SHANK		EYE		PRICE		No.
	Diameter Inches	Length Inches	Inside Inches	Outside Inches	Blank Each	Threaded Each	
40	$\frac{1}{4}$	$1\frac{3}{8}$	$\frac{1}{2}$	$\frac{7}{8}$	\$0 09	\$0 14	40
41	$\frac{5}{16}$	$1\frac{3}{8}$	$\frac{9}{16}$	$1\frac{1}{8}$	10	15	41
42	$\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{4}$	2	11	16	42
43	$\frac{7}{16}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$2\frac{1}{8}$	12	18	43
44	$\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$2\frac{3}{8}$	14	21	44
45	$\frac{9}{16}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$2\frac{3}{8}$	17	25	45
46	$\frac{5}{8}$	$1\frac{13}{16}$	$1\frac{13}{16}$	$2\frac{15}{16}$	22	32	46
47	$\frac{3}{4}$	2	$1\frac{13}{16}$	$3\frac{1}{16}$	30	42	47
48	$\frac{7}{8}$	$2\frac{3}{16}$	$1\frac{15}{16}$	$3\frac{1}{16}$	40	55	48
49	1	$2\frac{3}{8}$	$2\frac{1}{16}$	$3\frac{15}{16}$	55	74	49
49 $\frac{1}{2}$	$1\frac{1}{8}$	$2\frac{1}{2}$	$2\frac{3}{16}$	$4\frac{1}{16}$	80	1 04	49 $\frac{1}{2}$
50	$1\frac{1}{4}$	$2\frac{3}{4}$	$2\frac{3}{16}$	$4\frac{11}{16}$	1 15	1 45	50
51	$1\frac{1}{2}$	$3\frac{1}{8}$	$2\frac{3}{16}$	$5\frac{1}{16}$	2 00	2 50	51
52	$1\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{1}{16}$	$6\frac{1}{16}$	3 00	3 75	52
53	2	4	$3\frac{1}{16}$	$6\frac{1}{16}$	4 25	5 30	53
54	$2\frac{1}{2}$	5	$4\frac{1}{2}$	$8\frac{1}{2}$	7 00	8 80	54
55	$2\frac{3}{4}$	6	5	$9\frac{3}{4}$	14 00	18 00	55

SHOULDER PATTERN

DIMENSIONS AND PRICE LIST



No.	SHANK		EYE		Diameter Shoulder Inches	PRICES		No.
	Diameter Inches	Length Inches	Inside Inches	Outside Inches		Blank Each	Threaded Each	
60	$\frac{3}{8}$	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{15}{16}$	$\frac{5}{8}$	\$0 11	\$0 16	60
61	$\frac{1}{2}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$2\frac{3}{8}$	$\frac{7}{8}$	14	21	61
62	$\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{3}{8}$	$2\frac{5}{8}$	1	22	32	62
63	$\frac{3}{4}$	$2\frac{1}{8}$	$1\frac{1}{2}$	3	$1\frac{1}{8}$	30	42	63
64	$\frac{7}{8}$	$2\frac{1}{2}$	$1\frac{5}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	40	55	64
65	1	3	$1\frac{7}{8}$	$3\frac{3}{8}$	$1\frac{1}{2}$	55	74	65

Threaded Eye Bolts are furnished U. S. Standard.

When ordering specify Number, Model and Finish

DROP-FORGED WELDLESS EYE BOLTS
CABLE EYE BOLTS

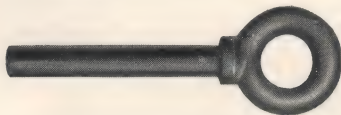


DIMENSIONS AND PRICES

No.	SHANK		EYE		PRICE		No.
	Diam. Inches	Length Inches	Inside Inches	Outside Inches	Blank Each	Threaded Each	
70	$\frac{1}{2}$	$5\frac{3}{8}$	$\frac{1}{2}$	$1\frac{3}{8}$	\$0 10	\$0 15	70
71	$\frac{5}{8}$	$3\frac{1}{2}$	$\frac{5}{8}$	$1\frac{5}{8}$	10	15	71
72	$\frac{3}{4}$	4	1	$2\frac{1}{4}$	12	17	72

Threaded Eye Bolts are furnished U. S. Standard.

TRANSFORMER EYE BOLTS



DIMENSIONS AND PRICES

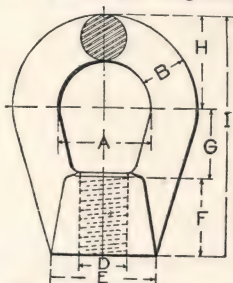
No.	SHANK		EYE		SHOUL- DER	PRICE		No.
	Diam. Inches	Length Inches	Inside Inches	Outside Inches	Diam. Inches	Blank Each	Threaded Each	
80	$\frac{3}{8}$	2	$\frac{5}{8}$	$1\frac{1}{4}$	$\frac{9}{16}$	\$0 10	\$0 13	80
81	$\frac{1}{16}$	$2\frac{3}{16}$	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{32}$	12	15	81
82	$\frac{1}{16}$	$4\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{2}$	$\frac{13}{16}$	14	17	82
83	$\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$	14	17	83
84	$\frac{1}{2}$	$3\frac{1}{2}$	$\frac{1}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$	16	19	84
85	$\frac{1}{2}$	$4\frac{1}{4}$	$\frac{13}{16}$	$1\frac{13}{16}$	$\frac{3}{4}$	17	20	85
86	$\frac{1}{2}$	$4\frac{7}{8}$	$\frac{1}{8}$	$1\frac{3}{4}$	$\frac{3}{4}$	18	21	86
87	$\frac{5}{8}$	$2\frac{5}{8}$	$1\frac{3}{32}$	$2\frac{3}{32}$	$\frac{15}{16}$	18	22	87
88	$\frac{5}{8}$	$3\frac{13}{16}$	$1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{15}{16}$	20	24	88
89	$\frac{5}{8}$	$5\frac{3}{4}$	$1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{15}{16}$	30	34	89
90	$\frac{3}{4}$	$5\frac{1}{2}$	$1\frac{1}{2}$	$2\frac{3}{4}$	$1\frac{1}{2}$	30	34	90
91	$\frac{3}{4}$	$5\frac{7}{8}$	$1\frac{5}{16}$	$2\frac{9}{16}$	$1\frac{1}{8}$	30	34	91

Threaded Eye Bolts are furnished U. S. Standard.

When ordering specify Number, Model and Finish

DROP-FORGED WELDLESS EYE NUTS

These Weldless Eye Nuts have been submitted to all the necessary tests, demonstrating their tensile strength and utility. They are made of the best quality of mild steel, and after forging are specially treated to increase their toughness.



DIMENSIONS

No.	Size	A Inches	B Inches	C Inches	D In. U. S. S.	E Inches	F Inches	G Inches	H Inches	I Inches	No.
100	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{3}{8}$ -16	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$2\frac{1}{4}$	100
101	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$ -13	1	1	1	1	3	101
102	$\frac{5}{8}$	$1\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{5}{8}$ -11	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$3\frac{3}{4}$	102
103	$\frac{3}{4}$	$1\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ -10	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$3\frac{3}{8}$	103
104	$\frac{7}{8}$	$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$ -9	2	$1\frac{1}{4}$	1	$1\frac{1}{16}$	$3\frac{1}{16}$	104
105	1	$1\frac{3}{4}$	1	$\frac{3}{8}$	1 - 8	$2\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$4\frac{1}{4}$	105
106	$1\frac{1}{4}$	2	$1\frac{1}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$ -7	$2\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$2\frac{1}{4}$	$5\frac{1}{2}$	106
107	$1\frac{1}{2}$	$2\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$ -6	$3\frac{1}{2}$	$2\frac{1}{8}$	$1\frac{3}{4}$	$2\frac{3}{8}$	$6\frac{1}{2}$	107
108	$1\frac{3}{4}$	3	$1\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{3}{4}$ -5	$3\frac{1}{2}$	$2\frac{3}{8}$	2	3	$7\frac{3}{8}$	108
109	2	$3\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2 - $4\frac{1}{2}$	4	3	$2\frac{1}{2}$	$3\frac{3}{8}$	$8\frac{7}{8}$	109

PRICE LIST

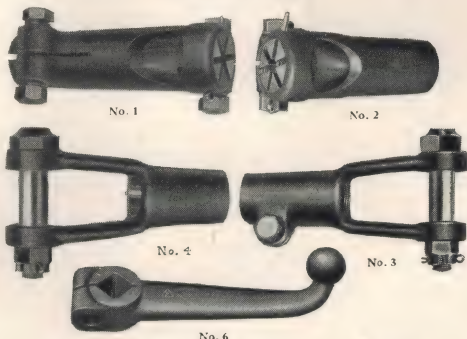
No.	Size Inches	Blank Each	Threaded Each	No.	Size Inches	Blank Each	Threaded Each
100	$\frac{3}{8}$	\$0 12	\$0 20	105	1	\$0 70	\$0 90
101	$\frac{1}{2}$	15	25	106	$1\frac{1}{4}$	1 20	1 40
102	$\frac{5}{8}$	20	30	107	$1\frac{1}{2}$	1 50	1 75
103	$\frac{3}{4}$	30	50	108	$1\frac{3}{4}$	2 50	3 00
104	$\frac{7}{8}$	60	85	109	2	3 50	4 00

Threaded Eye Nuts are tapped U. S. Standard.

When ordering specify Number, Model and Finish

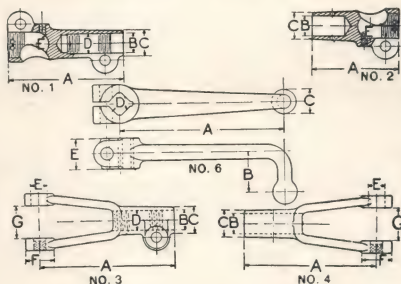
THE B. & S. IMPROVED AUTOMOBILE STEERING CONNECTIONS

See dimensions on next page.



¾ inch Ball		Each	1½ in. Ball		Each
A-1	.	\$1 20	D-1	.	\$1 75
A-2	.	90	D-2	.	1 30
A-3	.	1 40	D-3	.	1 75
A-4	.	1 35	D-4	.	1 50
A-6	.	60	D-6	.	1 00
1 in. Ball		Each	1¼ in. Ball		Each
B-1	.	\$1 25	C-1	.	\$1 75
B-2	.	1 00	C-2	.	1 30
B-3	.	1 50	C-3	.	1 75
B-4	.	1 40	C-4	.	1 50
B-6 Reg.	.	80	C-6	.	1 00
B-6 Spec. 9 in.	.	1 00			
1½ in. Ball		Each			
F-1	.	\$2 50			
F-2	.	1 90			
F-3	.	2 35			
F-4	.	2 00			
F-6	.	1 90			

THE B. & S. IMPROVED AUTOMOBILE STEERING CONNECTIONS



Dimensions

	A	B	C	D	E		A	B	C	E
A-1	3 1/2	5/8	13/16	5/8-18	3/8	A-2	2 5/8	5/8	13/16	3/8
B-1	4 11/32	13/16 or 7/8	1 1/32	13/16 or 7/8-18	1/2	B-2	3 3/16	13/16 or 7/8	1 1/32	3/4 Ball
C-1	5	1	1 3/16	1-18	1 in. Ball	C-2	3 7/8	1	1 3/16	1 1/2 in. Ball
D-1	4 3/4	1	1 3/16	1-18	1 1/4 Ball	D-2	3 3/4	1	1 3/16	1 1/4 Ball
F-1	6 1/8	1 1/4	1 5/8	1 1/4-16	1 1/8 Ball	F-2	4 13/16	1 1/4	1 5/8	1 1/8 Ball
					1 1/2 Ball					1 1/2 Ball

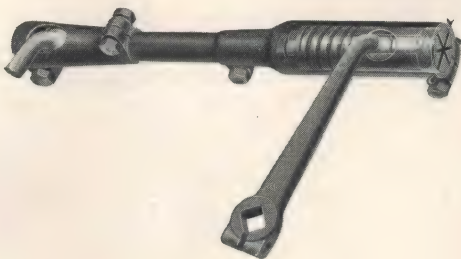
	A	B	C	D	E
A-6	5	1 1/4	3/4 Ball	5/8	13/16
B-6	5 1/4	1 1/2	1 Ball	3/4	1 1/8
B-6 Spec.	9	1 1/2	1 Ball	3/4	1 1/8
C-6	6	1 13/16	1 1/4 Ball	13/16	1 1/4
D-6	6	1 13/16	1 1/8 Ball	13/16	1 1/4
F-6	10	2 1/8	1 1/2 Ball	1 1/4	1 3/8

	A	B	C	D	E	F	G		A	B	C	E	F	G
A-3	4 1/8	5/8	13/16	5/8-18	1/2	23/32	1	A-4	4	5/8	13/16	1/2	23/32	1
B-3	4 3/4	13/16 or 7/8	1 1/16	13/16 or 7/8-18	3/8	1 1/16	1 1/8	B-4	4 1/4	13/16 or 7/8	1 1/16	3/16	1 1/16	1 1/8
C-3	4 3/4	1	1 3/16	1-18	5/8	1 1/8	1 1/4	C-4	4 1/4	1	1 3/16	3/8	1 1/8	1 1/4
D-3	4 3/4	1	1 3/16	1-18	5/8	1 1/8	1 1/4	D-4	4 1/4	1	1 3/16	5/8	1 1/8	1 1/4
F-3	5 3/8	1 1/4	1 5/8	1 1/4-16	7/8	1 13/16	2	F-4	4 3/4	1 1/4	1 3/8	3/8	1 1/16	2

For prices see previous page.

When ordering specify Number, Model and Finish

THE B. & S. IMPROVED SPRING STEERING CONNECTION



By its use vibration is reduced to a minimum, and its construction is such as to prevent the possibility of its becoming detached from the steering post arm. In ordering state length c. to c. desired.

PRICE LIST

Complete, including D-1, S.C.1, and tubing up to 35 in. from c. to c. of balls, but not the steering arm	\$8 25
Spring end only, (S.C.1) threaded, 1-in.-18th, length 8 in.	4 00

THE B. & S. SPRING BALL THROTTLE CONNECTION



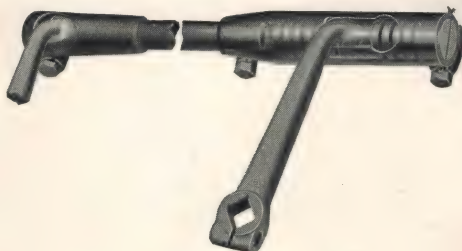
This article fulfills a demand for a small Ball and Socket Connection suitable for use on the adjusting rods of a carburetor, the spark control, or for similar connections where a free but secure joint is required.

Connection Tapped	1/4 inch-28
Ball Threaded	1/4 inch-28
Price complete, threaded 1/4 inch A.L.A.M. Standard	25c

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE B. & S. IMPROVED FORE-AND-AFT CONNECTION



We furnish this Fore-and-Aft Connection assembled complete, without steering arms. The price covers length of tubing up to 35 inches from c. to c. of balls. When ordering state length c. to c. desired.

PRICE LIST

No.		
1	For 1-inch balls, complete	\$5 55
2	For 1 1/4-inch balls, complete	6 10
3	For 1 1/2-inch balls, complete	7 20
5	For 1 3/4-inch balls, complete	9 50

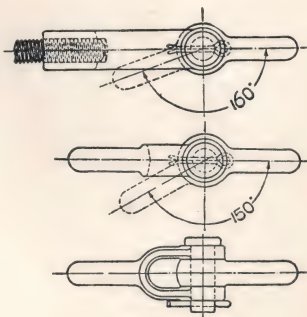
SPRING END ONLY

No.		No.	
1	Length 6 1/4 inch \$2 25	3	Length 8 inch \$3 40
2	Length 6 3/4 inch 2 30	5	Length 9 1/2 inch 4 50

When ordering specify Number, Model and Finish

ROD AND YOKE ENDS

We now make three different styles of Rod and Yoke Ends, namely, the S. A. E. Standard, the A. L. A. M. Standard, the regular B. & S. Standard. This material is drop-forged of high-grade O. H. steel and is designed to meet the requirements of manufacturers and assemblers of automobiles, motor boats, machinery, farm implements, etc., etc. We carry them in stock in several sizes as listed on the following pages.

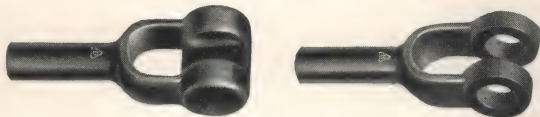


These Rod and Yoke Ends will be furnished machined and assembled, if wanted in sufficient quantity, and we will be pleased to quote prices on receipt of specified quantities wanted. We are also in a position to furnish same in any length that may be required.

Parties using this material in large quantities are requested to communicate with us to obtain best prices and terms.

PLAIN YOKE ENDS

S. A. E. Standard

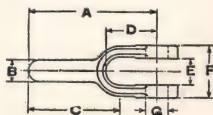


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled	Price per 100 Milled and Stud Holes Drilled	Studs Price per 100	No.
60	\$ 5 00	\$ 7 00	\$10 00	\$5 00	60
61	6 00	8 00	11 00	5 00	61
62	7 00	9 00	12 00	5 00	62
63	8 00	10 00	13 00	6 00	63
64	9 00	11 00	14 00	6 00	64
65	10 00	12 00	16 00	6 00	65

Cotters, per 100 \$0 15

TABLE OF FINISHED DIMENSIONS

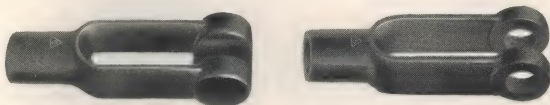


No.	A	B	C	D	E	F	G	No.
60	1 1/4	3/16	7/8	7/16	3/16	7/16	3/16	60
61	1 3/4	1/4	1 1/4	5/8	5/32	5/8	1/4	61
62	2	3/16	1 3/8	3/4	11/32	3/4	3/16	62
63	2 1/8	3/8	1 1/2	7/8	7/16	3/8	3/8	63
64	2 1/4	7/16	1 3/2	1	1/2	1	7/16	64
65	2 1/2	1/2	1 3/8	1 1/8	9/16	1 1/8	1/2	65

When ordering specify Number, Model and Finish

ADJUSTABLE YOKE ENDS

S. A. E. Standard

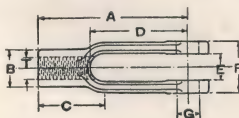


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled and Stud Holes Drilled	Price per 100 Threaded and Milled	Price per 100 Threaded Milled and Stud Holes Drilled	Studs Price per 100	No.
50	\$ 6 00	\$10 00	\$14 00	\$19 00	\$5 00	50
51	7 00	11 00	14 00	19 00	5 00	51
52	8 00	13 00	18 00	22 00	5 00	52
53	10 00	16 00	22 00	27 00	6 00	53
54	12 00	19 00	25 00	30 00	6 00	54
55	14 00	21 00	28 00	36 00	6 00	55

Cotters, per 100 \$0 15

TABLE OF FINISHED DIMENSIONS



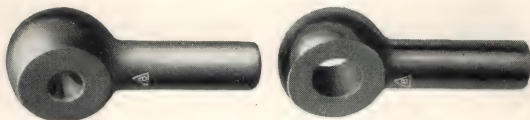
No.	A	B	C	D	E	F	G	T	No.
50	1 3/16	5/16	1 1/16	1	3/16	3/16	3/16	3/16 U. S. Std. 32 P. I.	50
51	2	3/16	3/8	1 1/4	3/32	3/8	1/4	1/4 S. A. E. Std. 28 P. I.	51
52	2 1/4	1/2	1	1 1/16	1 1/32	3/4	3/16	5/16 S. A. E. Std. 24 P. I.	52
53	2 1/2	5/8	1 1/8	1 5/8	3/16	3/8	3/8	3/8 S. A. E. Std. 24 P. I.	53
54	2 3/8	23/32	1 1/4	1 3/8	1/2	1	3/16	3/16 S. A. E. Std. 20 P. I.	54
55	3	13/16	1 3/8	1 3/8	9/16	1 1/8	1/2	1/2 S. A. E. Std. 20 P. I.	55

When ordering specify Number, Model and Finish

ROD ENDS

S. A. E. Standard

For use in connection with S. A. E. Adjustable Yoke Ends and Plain Yoke Ends

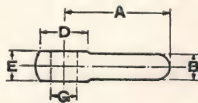


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled and Stud Holes Drilled	No.
70	\$3 00	\$ 7 00	70
71	3 00	8 00	71
72	4 00	9 00	72
73	5 00	10 00	73
74	6 00	11 00	74
75	7 00	12 00	75

TABLE OF FINISHED DIMENSIONS

Blanks are $\frac{1}{16}$ -inch thicker at head

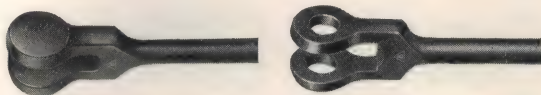


No.	A	B	D	E	G	No.
70	1 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	70
71	1 $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{9}{32}$	$\frac{1}{4}$	71
72	1 $\frac{3}{8}$	$\frac{5}{16}$	$\frac{19}{32}$	$\frac{11}{32}$	$\frac{5}{16}$	72
73	1 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{1}{16}$	$\frac{3}{8}$	73
74	1 $\frac{1}{2}$	$\frac{1}{16}$	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{3}{16}$	74
75	1 $\frac{3}{4}$	$\frac{1}{2}$	$\frac{15}{16}$	$\frac{3}{16}$	$\frac{1}{2}$	75

When ordering specify Number, Model and Finish

PLAIN YOKE ENDS

A. L. A. M. Standard

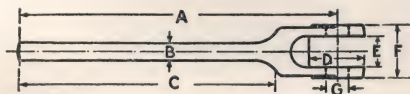


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled	Price per 100 Milled and Stud Holes Drilled	Studs Price per 100	No.
30	\$ 7 00	\$ 9 00	\$12 00	\$5 00	30
31	8 00	10 00	14 00	6 00	31
32	10 00	12 00	17 00	6 00	32
33	12 00	16 00	21 00	6 00	33
34	16 00	22 00	28 00	7 00	34

Washers to fit studs, per 100 \$0 75
 Cotters, per 100 15

TABLE OF FINISHED DIMENSIONS



No.	A	B	C	D	E	F	G	No.
30	4 1/2	1/4	3 5/8	25/32	3/16	3/4	5/16	30
31	4 3/4	5/16	3 11/16	15/16	1/2	7/8	15/32	31
32	5	3/8	3 3/4	1 1/16	19/32	1	15/32	32
33	5 1/4	7/16	3 7/8	1 5/16	21/32	1 1/8	3/16	33
34	5 1/2	1/2	4 1/8	1 3/16	3/4	1 1/4	5/8	34

When ordering specify Number, Model and Finish

ADJUSTABLE YOKE ENDS

A. L. A. M. Standard

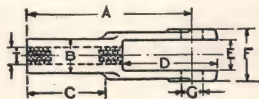


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled and Stud Hole Drilled	Price per 100 Threaded and Milled	Price per 100 Threaded, Milled and Stud Hole Drilled	Studs Price per 100	No.
20	\$ 7 00	\$12 00	\$16 00	\$19 00	\$5 00	20
21	8 00	13 00	18 00	22 00	6 00	21
22	10 00	16 00	22 00	27 00	6 00	22
23	12 00	19 00	25 00	30 00	6 00	23
24	16 00	23 00	30 00	36 00	7 00	24

Washers to fit Studs, per 100 \$0 75
 Cotters, per 100 15

TABLE OF FINISHED DIMENSIONS



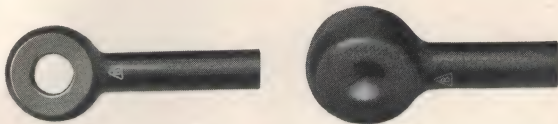
No.	A	B	C	D	E	F	G	T	No.
20	2 3/8	1/2	1 1/8	1 3/8	3/16	3/4	3/16	1/4-28	20
21	2 3/4	9/16	1 3/8	1 9/16	1/2	1/2	1/8	3/8-24	21
22	3 1/8	1 1/8	1 3/8	1 3/4	1 1/8	1	1 1/8	3/8-24	22
23	3 3/8	3/4	1 13/16	1 7/8	1 1/2	1 1/8	3/8	3/8-20	23
24	4	1 1/8	2 1/8	2 1/2	3/4	1 1/4	3/8	3/8-20	24

When ordering specify Number, Model and Finish

ROD ENDS

L. A. M. Standard

For use in Connection with A. L. A. M. Adjustable Yoke Ends and Plain Yoke Ends.

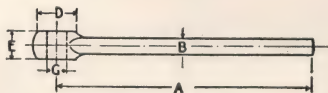


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled and Stud Holes Drilled	No.
40	\$5 00	\$ 9 00	40
41	6 00	10 00	41
42	6 50	11 00	42
43	8 00	13 00	43
44	9 00	15 00	44

TABLE OF FINISHED DIMENSIONS

Blanks are $\frac{1}{16}$ -inch thicker at head



No.	A	B	D	E	G	No.
40	$3\frac{15}{16}$	$\frac{1}{4}$	$\frac{5}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	40
41	$4\frac{1}{16}$	$\frac{5}{16}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{13}{32}$	41
42	$4\frac{1}{4}$	$\frac{3}{8}$	$\frac{13}{16}$	$\frac{15}{32}$	$\frac{15}{32}$	42
43	$4\frac{3}{16}$	$\frac{7}{16}$	$\frac{15}{16}$	$2\frac{1}{32}$	$\frac{3}{16}$	43
44	$4\frac{5}{8}$	$\frac{1}{2}$	$1\frac{3}{32}$	$\frac{3}{4}$	$\frac{5}{8}$	44

When ordering specify Number, Model and Finish

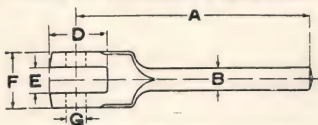
YOKE ENDS
B. & S. Standard



PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled	Price per 100 Milled and Stud Holes Drilled	No.
0	\$ 7 00	\$ 9 00	\$ 12 00	0
1	8 00	10 00	14 00	1
2	10 00	12 00	17 00	2
3	12 00	16 00	21 00	3
4	16 00	22 00	28 00	4
5	25 00	31 00	38 00	5
6	29 00	35 00	42 00	6
7	40 00	50 00	60 00	7
8	60 00	75 00	90 00	8
9	75 00	90 00	110 00	9
10	110 00	125 00	150 00	10
11	140 00	160 00	190 00	11

TABLE OF FINISHED DIMENSIONS

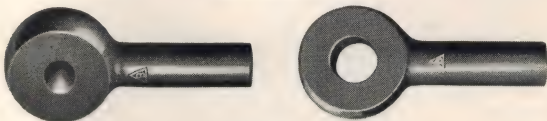


No.	A	B	D	E	F	G	No.
0	4 1/2	1/4	25/32	5/16	3/4	5/16	0
1	4 3/4	5/16	15/16	3/8	7/8	5/16	1
2	5	3/8	1 1/16	1/2	1	5/8	2
3	5 1/4	1/2	1 3/16	1/2	1 1/8	3/4	3
4	5 1/2	1/2	1 5/16	9/16	1 1/4	1/2	4
5	5 3/4	5/8	1 7/16	5/8	1 3/8	5/8	5
6	6 1/4	5/8	1 5/8	3/4	1 5/8	5/8	6
7	7	3/4	1 15/16	7/8	1 7/8	3/4	7
8	7 3/4	3/4	2 1/4	1	2 1/8	3/4	8
9	8 1/2	1	2 13/16	1 1/8	2 1/2	1	9
10	9 1/4	1 1/8	2 29/32	1 1/4	2 5/8	1 1/8	10
11	10	1 1/4	3 1/4	1 3/8	3 1/8	1 1/4	11

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

ROD ENDS
B. & S. Standard

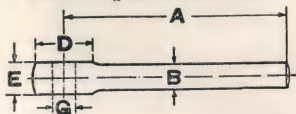


PRICE LIST

No.	Price per 100 Blanks	Price per 100 Milled and Stud Holes Drilled	No.
0	\$ 5 00	\$ 9 00	0
1	6 00	10 00	1
2	6 50	11 00	2
3	8 00	13 00	3
4	9 00	15 00	4
5	12 00	18 00	5
6	15 00	22 00	6
7	22 00	29 00	7
8	30 00	40 00	8
9	45 00	55 00	9
10	60 00	70 00	10
11	85 00	100 00	11

TABLE OF FINISHED DIMENSIONS

Blanks are $\frac{1}{16}$ -inch thicker at head

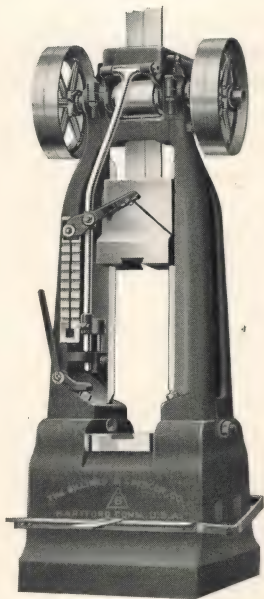


No.	A	B	D	G	E	No.
0	$3\frac{1}{16}$	$\frac{1}{4}$	$1\frac{1}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	0
1	$4\frac{1}{16}$	$\frac{3}{8}$	$1\frac{3}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	1
2	$4\frac{1}{4}$	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	2
3	$4\frac{3}{8}$	$\frac{3}{8}$	1	$\frac{3}{8}$	$\frac{1}{2}$	3
4	$4\frac{3}{8}$	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	4
5	$4\frac{13}{16}$	$\frac{9}{16}$	$1\frac{1}{4}$	$\frac{9}{16}$	$\frac{5}{8}$	5
6	$5\frac{3}{16}$	$\frac{5}{8}$	$1\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	6
7	$5\frac{9}{16}$	$\frac{3}{4}$	$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	7
8	$6\frac{1}{2}$	$\frac{7}{8}$	2	$\frac{7}{8}$	1	8
9	$6\frac{1}{2}$	1	$2\frac{1}{4}$	1	$1\frac{1}{8}$	9
10	$7\frac{1}{2}$	$1\frac{1}{8}$	$2\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	10
11	$7\frac{9}{16}$	$1\frac{1}{4}$	$2\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	11

When ordering specify Number, Model and Finish

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

THE BILLINGS & SPENCER CO.'S DROP HAMMER



The tools and forgings described in this Catalog are made on Drop Hammers of our own manufacture.

We have been marketing our Hammers for 25 years, during which time we have constantly improved them, through actual use in our own forging shops, resulting today in our Model "D," a cut of which is shown here.

We are now using Model "D" with success in our own shops, and can therefore recommend it for yours.

Write for Drop Hammer Catalog giving full description.

SPECIAL DROP FORGINGS

Drop Forgings are now used on nearly all descriptions of machinery, tools, instruments, etc. Drop Forgings can be furnished of Iron, Steel, Copper, Bronze and Aluminum. The principal metal used in Drop Forgings is Steel.

We carry a large tonnage of various sizes, shapes and qualities of steel and in most cases can produce special forgings from material we have in stock. It often happens, however, that the peculiar shape of a special forging is such that the best size and shape of steel for economical production cannot be determined until the dies are tried in the hammer, and often the result is that an unusual size or shape of steel is desirable, necessitating a special order from the mills and in cases of this kind more or less delay is unavoidable.



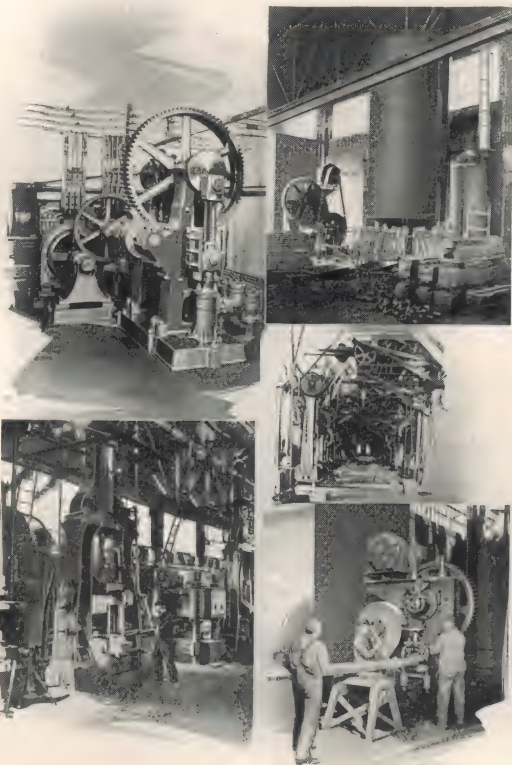
EQUIPMENT

Our equipment for the making of forgings includes Drop Hammers, both Board and Steam, from 400 to 7,000 pounds, inclusive, Hydraulic Presses up to 1,200 tons capacity, Headers and



THE BILLINGS & SPENCER CO., HARTFORD, CONN.

Bull Dozing Machines up to 5-inch capacity, Shears for cutting steel Bars cold up to 6-inch square, Bending Machines, Hot Sawing Machines and Trip Hammers.



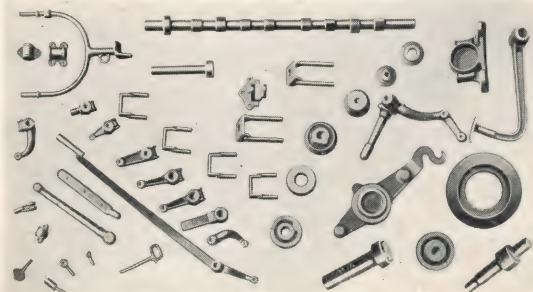
TO GET ESTIMATES ON SPECIAL DROP FORGINGS

Send us model, blue print or drawing of piece wanted. State quantity for which order will be placed.

State kind and quality of material wanted.

State whether model, blue print or drawing shows "forged dimensions" or "finished dimensions." If the latter, state how much allowance for finish is desired. When an order for Special Forgings is placed with us, and before the dies are completed and hardened, it is our practice to submit to the customer a lead casting taken from the dies, for approval. The lead will show draft; namely the taper necessary for removing the forgings from the dies, added unless we are otherwise instructed. Upon receipt of approval, the dies and tools are completed and hardened and the order executed.

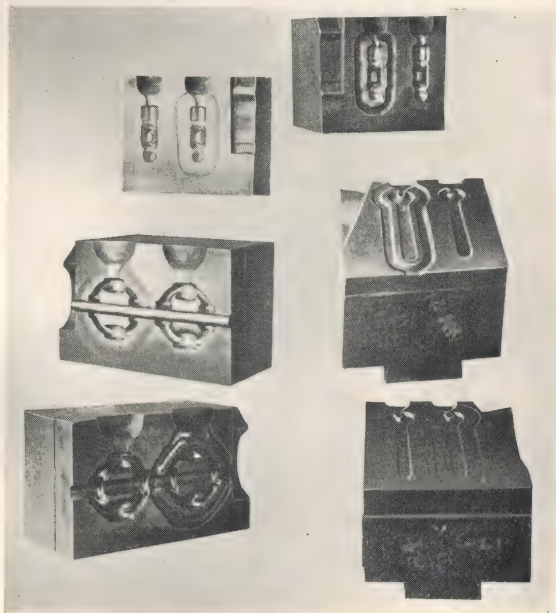
Quotations are subject to change without notice, according to changes in prices of material, labor, etc.



DIES AND TOOLS

A part only of the cost of dies and tools is included in our estimates and we will not sell them at the price given in our quotations.

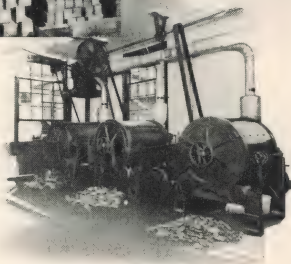
Charges made for dies and tools do not convey the right to remove such dies and tools from our factory. We make such renewals and repairs as are necessary on dies and tools at our expense. While we retain the possession of dies for special forgings, our customer controls them insomuch that such dies and tools are used for his orders exclusively. We do not make forgings from these dies without written authority from the original customer.



QUALITY

The steel we carry in stock for special forgings is "double selected" and we pay an extra price for same as distinguished from "mill run." "Double-Selected" steel goes through two inspections at the mills to eliminate, as far as possible, seamy and otherwise defective material.

All Drop Forgings furnished by us are cleaned by shot blasting and are in perfect condition for machining.



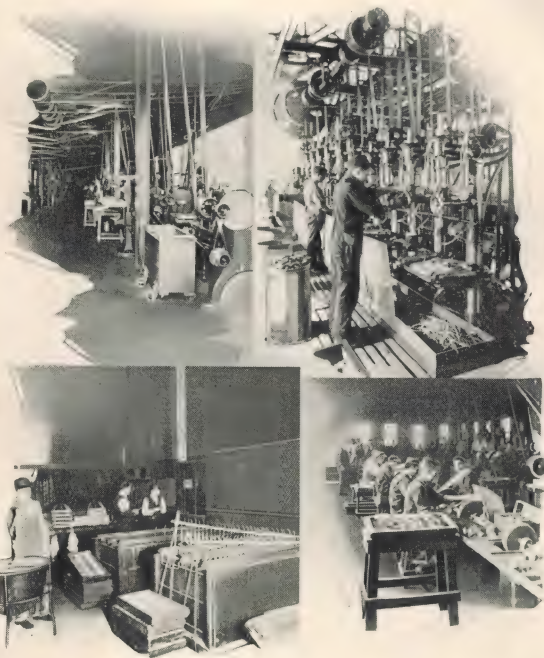
HEAT TREATMENT

Our production facilities include a complete and up-to-date Heat Treating Department for oil or water treatment, case-hardening, annealing, tempering, etc. This equipment includes recording pyrometers and instruments for testing.



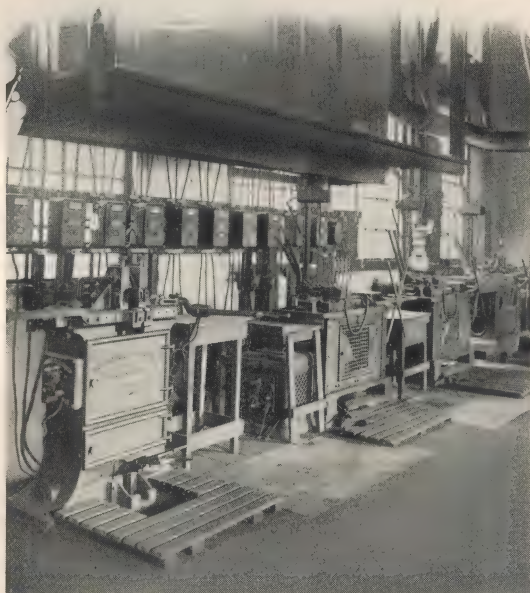
MACHINING

We are equipped with extensive machining facilities, such as screw machines, milling, drilling, broaching, threading, tapping, etc., and can furnish Special Forgings completely or partially machined, also polished and plated.



ELECTRIC WELDING

We have an installation of Electric Welding Machines with a capacity up to 11 $\frac{1}{4}$ inch round, and can furnish such material as Eye Bolts, Rod and Yoke Ends, also special work, to any length desired.



INSPECTION

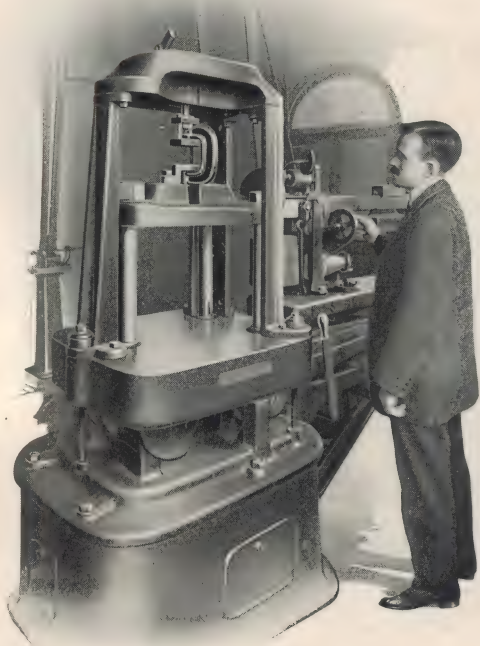
All Drop Forgings made by us pass through two separate inspections to eliminate defective work or material. All machined or finished parts are also inspected twice.



THE BILLINGS & SPENCER CO., HARTFORD, CONN.

LABORATORY

Our laboratory facilities are most complete, including equipment for Chemical and Physical Testing, also apparatus for Micro-Photography.



THE BILLINGS & SPENCER CO., HARTFORD, CONN.

DELIVERY

All special forgings delivered F. O. B., cars or boat, Hartford unless otherwise agreed upon.

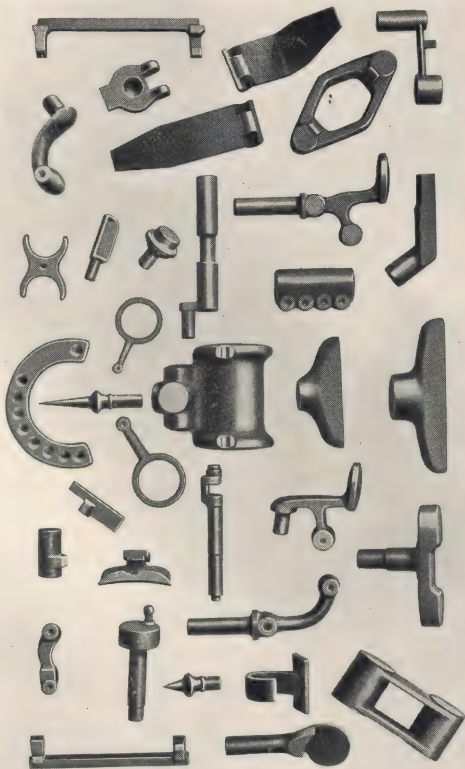


GUARANTEE

All forgings produced by us are guaranteed in both workmanship and material, and we will credit all that are imperfect or defective, but will not be responsible for the cost of labor put on them after they have left our factory.

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

SPECIAL FORGINGS



B. & S. MODEL NUMBERS AND NAMES OF TOOLS

Model	Name	Page	Model	Name	Page
97	Wrench, Model 97	5	AW	Die Dogs	44
A	Wrench, Model A	5	AX	Machinists' Clamps	45
B	Wrench, Model B	6	AY	"C" Clamps	45
C	Wrench, Model C	6	AZ	Improved "C" Clamps	46
D	Wrench, Model D	7	BC	Toolmakers "C" Clamps	47
E	Wrench, Model E	7	BD	Chuckling Reamer Holder	48
F	Adjustable Wrench, Model F	8	BE	Cutting Off Tool	49
G	Adjustable Auto Wrench	10-11	BJ	Nurling Tool	50
H	Adjustable "S" Wrench	9	BK	Hand Vise, without Clamp	51
J	Adjustable "S" Pipe Wrench	9	BL	Lineman's Hand Vise	51
K	Tap Wrench	53	BKO	Hand Vise & Clamp & Base complete	52
L	Adjustable Spanner Wrench	8	BKM	Hand Vise, with Clamp	52
M	Combination Pliers	14	BM	Clamps only	52
N	Hayden Pliers	15	BO	Clamp and Anvil Base	52
P	All Steel Screw Drivers	16	BP	Jewelers' Anvil and Base	52
Q	Magazine Screw Driver	17	BR	Belt Clamp	57
R	Gun Makers' Screw Driver	18	BX	Heavy Duty Double Acting Boiler Ratchet	29
S	Oval Belt Awls	19	CA	All Friction Wrench No. 10	33
T	Round Belt Awls	19	CB	Eureka Ratchet Wrench	36
U	Belt Reamer	19	CC	Box Joint Pliers	15
V	All Steel Belt Awls	19	CD	Knife, File and Nail Cleaner	54
W	Cotter Pin Tool	20	CE	Combination Knife and Screw Driver	54
X	Punch	20	CF	Belt Shifter	58
Y	Kit Chisel	20	CG	Allen Universal Wrench	36
Z	Off-set Screw Driver	20	CH	Billings' Sportsman's Knife	55
AD	Round Pattern Hammer	21	CI	Ratchet Extension	32
AE	Packer Ratchet	22	CJ	Reducing Collett	32
AF	Boiler Ratchet	24	CK	Headless Screw Bent Tail Lathe Dog	41
AG	Taper Socket Ratchet	23	CL	Headless Screw Straight Tail Lathe Dog	42
AH	Double Acting Ratchet	27	CM	Headless Screw Bent Tail Double Screw Lathe Dog	43
AHH	Double Act'g Railroad Ratchet	28	CN	Headless Screw Straight Tail Double Screw Lathe Dog	43
AI	Double Act'g Boiler Ratchet	30	GA	Adjustable Angle Wrench	12
AII	Double Acting Ratchet	30	GB	Adjustable Alligator Wrench	13
AJ	Railroad Packer Ratchet	25	XA	Center Punch	20
AJJ	R. R. Taper Socket Ratchet	26	YA	Cold Chisel	20
AK	Taper Sleeve	31	YB	Cape Chisel	20
AL	Flat Drill Socket	31			
AO	Drifts	32			
AR	Bent Tail Lathe Dogs	38			
AS	Straight Tail Lathe Dogs	39			
AT	Double Screw Lathe Dogs	40			
AU	Clamp Dogs	44			
AV	Swivel Jaw Clamp Dogs	44			

NUMERICAL INDEX OF MACHINE WRENCHES

Wrench No.	Name	Page
1- 4	Hook Spanners	88
1- 6	Chuck Wrenches	88
3- 15	Face Spanners	87
720 J- 733 K	"T" Handle Socket	92-93
721 A- 733 B	"T" Handle Socket	90-91
800- 802	Double Opening Socket	89
810- 811	Spark Plug	89
820 J- 833 K	Off Set Handle Socket	96-97
821 A- 833 B	Off Set Handle Socket	94-95
921 A- 926 C	Bit Brace Socket	98
921 J- 926 K	Bit Brace Socket	99
1000- 1031	15° Angle Single Head Engineers'	62-63
1100 A- 1166	15° Angle Double Head Engineers'	64-65
1200 S-1215 S	15° Angle Single Head Heavy Cap Screw, Square	66
1204- 1215	15° Angle Single Head Heavy Cap Screw, Hexagon	67
1250 S-1272 S	15° Double Head Heavy Cap Screw, Square	68
1253- 1274	15° Angle Double Head Heavy Cap Screw, Hexagon	69
1300- 1309	15° Angle Single Head Check Nut	70
1350- 1367	15° Angle Double Head Check Nut	71
1400- 1453	22 1/2° Angle Double Head "S", Round	72-73
1400 S-1451 S	22 1/2° Angle Double Head "S", Square	74
1500- 1511	22 1/2° Angle Single Head Set Screw	75
1523- 1543	22 1/2° Angle Double Head Set Screw	76
1550- 1583	22 1/2° Angle Double Head Textile	77
1625- 1649	Set Screw and Nut	78
1675- 1682	Construction	79
1700- 1709	Structural	79
1725- 1732	Long Round Handle	80
1750- 1754	Single Head Long Flat Handle	80
1775- 1778	Double Head Long Flat Handle	80
1800- 1813	Double Head Car	81
1825- 1840	Double Head Tool Post for U. S. Std. Nut & Set Screws	82
1850- 1860	Single Head Box	83
1875- 1882	Double Head Tool Post for Set Screws	84
2000- 2044	Light Service	85-86

COMPARATIVE LIST OF B. & S. NEW AND OLD
MACHINE WRENCH NUMBERS

ENGINEERS' WRENCHES 15° Angle Single Head		ENGINEERS' WRENCHES 15° Angle Single Head		ENGINEERS' WRENCHES 15° Angle Double Head		HEAVY CAP SCREW WRENCHES 15° Angle Single Head	
New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number
1000	262	1026	279	1130	515	1202 S	...
	472	1027	280	1131	516	1203 S	...
	600	1028	281	1132	297	1204	...
1001	263	1029	282	1133	517	1204 S	...
	601	1030	283	1134	298	1205	...
1002	474	1031	284	1135	518	1205 S	...
	264			1136	299	1206 S	...
1003	475	15° Angle Double Head		1137	300	1207	...
	602			1138	519	1207 S	...
1004	476			1139	520	1208	...
	265	1100 A	490	1140	301	1209	...
1005	603	1100	493	1141	302	1209 S	...
	477	1101	285	1142	521	1210	...
1006	266	1102	494	1143	522	1210 S	...
	478	1103	286	1144	...	1211	...
1007	604	1104	495	1145	523	1211 S	...
	479	1105	496	1146	303	1212	...
1008	267	1106	497	1147	524	1212 S	...
	605	1107	287	1148	304	1213	...
1009	480	1108	288	1149	525	1213 S	...
	268	1109	498	1150	305	1214	...
1010	481	1110	499	1151	306	1214 S	...
	606	1111	500	1152	...	1215	...
1011	269	1112	289	1153	307	1215 S	...
	607	1113	501	1154	308		
1012	482			1155	309	15° Angle Double Head	
	270	1114	502	1156	310	1250 S	...
1013	608	1115	503	1157	311	1251 S	...
	483	1116	504	1158	312	1252 S	...
1014	271	1117	507	1159	313	1253	...
	484	1118	291	1160	314	1253 S	...
1015	609	1119	292	1161	315	1254	...
	485	1120	508	1162	316	1254 S	...
1016	272	1121	509	1163	317	1255	...
	610	1122	510	1164	320	1255 S	...
1017	486	1123	293	1165	...	1256 S	...
	273	1124	294	1166	323	1257	...
1018	487			HEAVY CAP SCREW WRENCHES 15° Angle Single Head		1258	...
	274	1125	513	1200 S	...	1258 S	...
1019	275	1126	514	1201 S	...	1259	...
	276	1127	...			1260	...
1020	277	1128	295				
1021	278	1129	296				

COMPARATIVE LIST OF B. & S. NEW AND OLD
MACHINE WRENCH NUMBERS

HEAVY CAP SCREW WRENCHES 15° Angle Double Head		CHECK NUT OR THIN WRENCHES 15° Angle Double Head		22½° ANGLE DOUBLE HEAD "S" WRENCHES		22½° ANGLE DOUBLE HEAD "S" WRENCHES	
New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number
1261	...	1356	1356		{ 175	1427 S	...
1261 S	...	1357	1357	1411	{ 348	1428	334 A
1262 S	...	1358	1358		{ 580	1428 S	...
1263	...	1359	1359	1411 S	...	1429	335 A
1264	...	1360	1360	1412	328 A	1429 S	...
1265	...	1361	1361	1412 S	...	1430	{ 361
1266	...	1362	1362		{ 176		{ 588
1266 S	...	1363	1363	1413	{ 349	1431	{ 362
1267 S	...	1364	1364		{ 581		{ 589
1268	...	1365	1365	1414	329 A	1432	336 A
1269	...	1366	1366	1415			{ 186
1270	...	1367	1367		{ 177	1433	{ 363
1270 S	...			1416	{ 350		{ 590
1271	...	22½° ANGLE DOUBLE HEAD "S" WRENCHES			{ 582	1434	337 A
1271 S	...			1416 S	...	1434 S	...
1272	...				{ 179		{ 187
1272 S	...	1400	{ 169	1417	{ 352	1435	{ 364
1273	...		{ 342		{ 583		{ 591
1274	...	1400 S	...	1417 S	...	1435 S	...
		1401	324 A	1418	330 A	1436	338 A
		1401 S	...	1419	331 A	1436 S	...
		1402	{ 170		{ 181	1437	339 A
			{ 343	1420	{ 354	1437 S	...
		1403	325 A		{ 584		{ 188
		1403 S	...	1420 S	...	1438	{ 365
			{ 171		{ 355		{ 592
		1404	{ 344	1421	{ 585	1438 S	...
			{ 576	1421 S	...		{ 189
		1404 S	...	1422	...	1439	{ 366
			{ 172	1423	332 A		{ 593
		1405	{ 345		{ 183	1439 S	...
			{ 577	1424	{ 357	1440	340 A
		1406	...		{ 333 A	1441	541 A
		1407	326 A	1424 S	...	1441 S	...
		1408	327 A		{ 358		{ 190
		1408 S	...	1425	{ 586	1442	{ 367
			{ 173		...		{ 594
		1409	{ 346	1425 S	...	1442 S	...
			{ 578		{ 184		{ 191
		1409 S	...	1426	{ 359	1443	{ 568
			{ 174		{ 587		{ 595
		1410	{ 347	1426 S	...		{ 193
			{ 579	1427	{ 185	1444	{ 570
					{ 360		{ 596

CHECK NUT OR THIN WRENCHES 15° Angle Single Head		22½° ANGLE DOUBLE HEAD "S" WRENCHES	
New Number	Old Number	New Number	Old Number
1300	450		
1301	451		
1302	452		
1303	453		
1304	454		
1305	455		
1306	456		
1307	457		
1308	458		
1309	459		

15° Angle Double Head		22½° ANGLE DOUBLE HEAD "S" WRENCHES	
New Number	Old Number	New Number	Old Number
1350	1350		
1351	1351		
1352	1352		
1353	1353		
1354	1354		
1355	1355		

COMPARATIVE LIST OF B. & S. NEW AND OLD
MACHINE WRENCH NUMBERS

22½° ANGLE DOUBLE HEAD "S" WRENCHES		22½° ANGLE SET SCREW WRENCHES		22½° ANGLE DOUBLE HEAD TEXTILE WRENCHES		CONSTRUCTION WRENCHES	
New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number
1444 S	...	1528	1528	1573	386	1675	C 223
1445	542 A	1529	1529	1574	385	1676	C 224
1445 S	...	1530	1530	1575	387	1677	C 225
	194	1531	1531	1576	388	1678	C 226
1446	...	1532	1532	1577	390	1679	C 227
	597	1533	1533	1578	389	1680	C 228
1447	543 A	1534	1534	1579	...	1681	C 229
1447 S	...	1535	1535	1580	...	1682	C 230
	195	1536	1536	1581	391		
1448	...	1537	1537	1582	...		
	572	1538	1538	1583	...		
	598	1539	1539			STRUCTURAL WRENCHES	
1449	544 A	1540	1540	MACHINE WRENCHES		1700	C 901
1450	545 A	1541	1541			1701	C 902
1450 S	...	1542	1542			1702	C 903
1451	546 A	1543	1543	1625	402 A	1703	C 904
1451 S	...			1626	403 A	1704	C 905
1452	547 A			1627	404	1705	C 906
1453	548 A			1628	405	1706	C 907
		22½° ANGLE DOUBLE HEAD TEXTILE WRENCHES		1629	406	1707	C 908
		1550	367 ½	1630	407	1708	C 909
22½° ANGLE SET SCREW WRENCHES Single Head		1551	...	1631	408	1709	C 910
		1552	...	1632	409		
1500	1500	1553	368	1633	410	LONG ROUND HANDLE WRENCHES	
1501	1501	1554	370	1634	411	1725	850
1502	1502	1555	369	1635	412	1726	851
1503	1503	1556	...	1636	413	1727	852
1504	1504	1557	371	1637	414	1728	853
1505	1505	1558	372	1638	415	1729	854
1506	1506	1559	373	1639	416	1730	855
1507	1507	1560	374	1640	417	1731	856
1508	1508	1561	375	1641	418	1732	857
1509	1509	1562	376	1642	419		
1510	1510	1563	377	1643	420		
1511	1511	1564	378	1644	421		
		1565	...	1645	422	LONG FLAT HANDLE WRENCHES Single Head	
Double Head		1566	...	1646	423	1750	870
		1567	379	1647	424	1751	871
1523	1523	1568	380	1648	425	1752	872
1524	1524	1569	381	1649	426	1753	873
1525	1525	1570	384			1754	874
1526	1526	1571	382				
1527	1527	1572	383				

COMPARATIVE LIST OF B. & S. NEW AND OLD
MACHINE WRENCH NUMBERS

LONG FLAT HANDLE WRENCHES Double Head		DOUBLE HEAD TOOL POST WRENCHES		DOUBLE HEAD TOOL POST WRENCHES		LIGHT SERVICE WRENCHES	
New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number
1775	880	1827	104	1875		2017	532
1776	881	1828	105	1876	5	2018	662
1777	882	1829	106	1877		2019	562
1778	883	1830	107	1878		2020	
....	884	1831	..	1879	4	2021	
...	885	1832	111	1880		2022	...
..	886	1833	...	1881	6	2023	
....	887	1834	...	1882	..	2024	533
CAR WRENCHES		1835	..	LIGHT SERVICE WRENCHES		2025	663
1800	C 367	1836	...	2000	660	2026	563
1801	C 370	1837	114	2001	550	2027	552
1802	C 371	1838	..	2002	560	2028	
1803	C 373	1839	..	2003	530	2029	
1804	C 374	1840	...	2004		2030	
1805	C 376	SINGLE HEAD BOX WRENCHES		2005		2031	
1806	C 377	1850		2006		2032	534
1807	C 379	1851	0	2007	661	2033	664
1808	C 380	1852		2008		2034	
1809	C 382	1853		2009	531	2035	564
1810	C 383	1854		2010	561	2036	
1811	C 385	1855	1	2011		2037	
1812	C 387	1856		2012		2038	553
1813	C 389	1857	2	2013	551	2039	...
DOUBLE HEAD TOOL POST WRENCHES		1858	3	2014		2040	
1825	102	1859		2015		2041	
1826	103	1860		2016		2042	
						2043	554
						2044	

COMPARATIVE LIST OF B. & S. OLD AND NEW
MACHINE WRENCH NUMBERS

SINGLE AND DOUBLE HEAD TOOL POST WRENCHES		22½° ANGLE DOUBLE HEAD "S" WRENCHES For Set Screws and Square Head Cap Screws		15° ANGLE SINGLE HEAD WRENCHES		15° ANGLE DOUBLE HEAD WRENCHES	
Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number
0	1851	177	1420 S	279	1026	317	1163
1	1855	178	1421 S	280	1027	318	....
2	1857	179	1424 S	281	1028	319	....
3	1858	180	1425 S	282	1029	320	1164
4	1879	181	1426 S	283	1030	321	....
5	1876	182	1428 S	284	1031	322	....
6	1881	183	1429 S			323	1166
7	....	184	1434 S	15° ANGLE DOUBLE HEAD WRENCHES			
8	....	185	1435 S				
		186	1436 S			22½° ANGLE DOUBLE HEAD "S" WRENCHES For U. S. Standard Nuts	
		187	1438 S	285	1101		
DOUBLE HEAD TOOL POST WRENCHES		188	1441 S	286	1103		
		189	1442 S	287	1107	324	....
101	....	190	1444 S	288	1108	324 A	1401
102	1825	191	1445 S	289	1112	325	....
103	1826	192	....	290	1114	325 A	1403
104	1827	193	1447 S	291	1118	326	....
105	1828	194	1450 S	292	1119	326 A	1407
106	1829	195	1451 S	293	1123	327	....
107	1830	196	....	294	1124	327 A	1408
108	....	197	....	295	1128	328	....
109	1830			296	1129	328 A	1412
110	....	15° ANGLE SINGLE HEAD WRENCHES		297	1132	329	....
111	1832			298	1134	329 A	1414
112	....			299	1136	330	....
113	....	262	1000	300	1137	330 A	1418
114	1837	263	1001	301	1140	331	....
22½° ANGLE DOUBLE HEAD "S" WRENCHES For Set Screws and Square Head Cap Screws		264	1003	302	1141	331 A	1419
		265	1005	303	1146	332	....
		266	1007	304	1148	332 A	1423
		267	1009	305	1150	333	....
		268	1011	306	1151	333 A	1424
168	1401 S	269	1012	307	1153	334	....
169	1403 S	270	1014	308	1154	334 A	1428
170	1404 S	271	1016	309	1155	335	....
171	1408 S	272	1018	310	1156	335 A	1429
172	1409 S	273	1020	311	1157	336	....
173	1411 S	274	1021	312	1158	336 A	1432
174	1412 S	275	1022	313	1159	337	....
175	1416 S	276	1023	314	1160	337 A	1434
176	1417 S	277	1024	315	1161	338	....
		278	1025	316	1162		

THE BILLINGS & SPENCER CO., HARTFORD, CONN.

COMPARATIVE LIST OF B. & S. OLD AND NEW
MACHINE WRENCH NUMBERS

15° ANGLE DOUBLE HEAD WRENCHES		GENERAL SERVICE WRENCHES		15° ANGLE SINGLE HEAD WRENCHES		FLAT HANDLE TRACK WRENCHES Double Head	
Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number
524	1147	560	2001	600	1000	880	1775
525	1149	561	2009	601	1001	881	1776
526	....	562	2018	602	1003	882	1777
527	....	563	2026	603	1005	883	1778
GENERAL SERVICE WRENCHES		564	2035	604	1007	884	....
		22½° ANGLE DOUBLE HEAD "S" WRENCHES		605	1009	885	....
				606	1011	886	....
				607	1012	887	....
				608	1014	15° ANGLE THIN DOUBLE HEAD CHECK NUT WRENCHES	
530	2002			609	1016		
531	2009			610	1018		
532	2017			GENERAL SERVICE WRENCHES			
533	2023			1350	1350		
534	2032	568	1443	1351	1351		
22½° ANGLE DOUBLE HEAD "S" WRENCHES		569	....	1352	1352		
		570	1444	660	2000	1353	1353
		571	1446	661	2007	1354	1354
		572	1448	662	2017	1355	1355
		573	....	663	2025	1356	1356
541	....	574	....	664	2033	1357	1357
541 A	1441	576	1404	ROUND HANDLE TRACK WRENCHES		1358	1358
542	....	577	1405			1359	1359
542 A	1445	578	1409			1360	1360
543	....	579	1410			1361	1361
543 A	1447	580	1411			1362	1362
544	....	581	1413	850	1725	1363	1363
544 A	1449	582	1416	851	1726	1364	1364
545	....	583	1417	852	1727	1365	1365
545 A	1450	584	1420	853	1728	1366	1366
546	....	585	1421	854	1729	1367	1367
546 A	1451	586	1425	855	1730	22½° ANGLE SINGLE HEAD SET SCREW WRENCHES	
547	....	587	1426	856	1731		
547 A	1452	588	1430	857	1732		
548	....	589	1431	FLAT HANDLE TRACK WRENCHES Single Head			
548 A	1453	590	1433	1500	1500		
GENERAL SERVICE WRENCHES		591	1435	1501	1501		
		592	1438	1502	1502		
		593	1439	1503	1503		
		594	1442	870	1750	1504	1504
		595	1443	871	1751	1505	1505
550	2001	596	1444	872	1752	1506	1506
551	2013	597	1446	873	1753		
552	2026	598	1448	874	1754		
553	2038						
554	2044						

COMPARATIVE LIST OF B. & S. OLD AND NEW MACHINE WRENCH NUMBERS

22½° ANGLE SINGLE HEAD SET SCREW WRENCHES		22½° ANGLE DOUBLE HEAD SET SCREW WRENCHES		CONSTRUCTION WRENCHES		CAR WRENCHES 22½° Angle Double Head	
Old Number	New Number	Old Number	New Number	Old Number	New Number	Old Number	New Number
1507	1507	1534	1534	C 229	1681	C 382	1809
1508	1508	1535	1535	C 230	1682	C 383	1810
1509	1509	1536	1536	CAR WRENCHES 22½° Angle Double Head		C 385	1811
1510	1510	1537	1537			C 387	1812
1511	1511	1538	1538			C 389	1813
		1539	1539				
		1540	1540			STRUCTURAL WRENCHES	
		1541	1541	C 367	1800		
		1542	1542	C 370	1801		
		1543	1543	C 371	1802		
		CONSTRUCTION WRENCHES		C 372	....	C 901	1700
1523	1523			C 373	1803	C 902	1701
1524	1524			C 374	1804	C 903	1702
1525	1525			C 375	....	C 904	1703
1526	1526	C 223	1675	C 376	1805	C 905	1704
1527	1527	C 224	1676	C 377	1806	C 906	1705
1528	1528	C 225	1677	C 378	....	C 907	1706
1529	1529	C 226	1678	C 379	1807	C 908	1707
1530	1530	C 227	1679	C 380	1808	C 909	1708
1531	1531	C 228	1680	C 381	....	C 910	1709
1532	1532						
1533	1533						

GENERAL INDEX

Article	Page	Article	Page
Anvils		Dogs	
Anvil, Horn	52	Dogs, Clamp	44
Anvil, Jewelers'	52	Dogs, Clamp with Swivel Jaw	44
Anvil, Square	52	Dogs, Die	44
Awls		Dogs, Bent Tail Lathe	38
Awls, Oval	19	Dogs, Safety Bent Tail Lathe	38
Awls, Round	19	Dogs, Straight Tail Lathe	39
Awls, Solid Steel	19	Dogs, Safety Straight Tail Lathe	39
Boards—Wrench Display	114-129	Dogs, Double Screw Lathe	
Board, Wrench Display No. 1	115-117	Straight and Bent Tail	40
Board, Wrench Display No. 2	118-119	Dogs, Headless Screw Bent Tail	
Board, Wrench Display No. 3	120-122	Lathe	41
Board, Wrench Display No. 4	123-124	Dogs, Headless Screw Straight Tail	
Board, Wrench Display No. 5	125-126	Lathe	42
Board, Wrench Display No. 6	127-129	Dogs, Headless Screw Bent and	
Bolts—Eye		Straight Tail Double Screw	
Bolts, Eye—Plain	136	Lathe	43
Bolts, Eye—Shoulder	136	Drifts	32
Bolts, Eye—Cable	137	Ends—Rod	
Bolts, Eye—Transformer	137	Ends, Rod—A. L. A. M. Standard	149
Chisels		Ends, Rod—B. & S. Standard	151
Chisels, Cape	20	Ends, Rod—S. A. E. Standard	146
Chisels, Cold	20	Ends—Yoke	
Chisels, Kit	20	Ends, Yoke—A. L. A. M. Standard	
Clamps		—Adjustable	148
Clamps, Belt	57	Ends, Yoke—A. L. A. M. Standard	
Clamps, "C"	45	—Plain	147
Clamps, Improved "C"	46	Ends, Yoke—B. & S. Standard	150
Clamps, Machinists'	45	Ends, Yoke—S. A. E. Standard	
Clamps, Toolmakers' "C"	47	—Adjustable	145
Clamps, Hand Vise—Plain	52	Ends, Yoke—S. A. E. Standard	
Clamp, Hand Vise with Anvil Base,		—Plain	144
Hardy and Anvils	52	Equipment	154-155
Collet—Reducing	32	Estimates—To Get	156
Connections		Extension—Ratchet	32
Connections, Automobile Steering		Forgings—Special Drop	153
.	139-140	Gauges—Snap	131
Connections, Improved Fore and		Guarantee	164
Aft	142	Hammers	
Connections, Improved Spring		Hammers, Drop	152
Steering	141	Hammers, Machinists'	21
Connections, Throttle	141	Hammers, Tack and Puller	56
Cranks—or Lever Forgings	130	Handles	
Delivery	164	Handles, Binder Screw	130
Dies and Tools	157		

GENERAL INDEX—Continued

Article	Page	Article	Page
Handles —continued		Ratchets —continued	
Handles, Bit Brace Socket Wrench	99	Ratchets, Double Acting	27 and 30
Handles, Machine	132	Ratchets, Double Acting Railroad	28
Hardy—Anvil	52	Ratchets, Double Acting Heavy Duty Boiler	29
Heat Treatment	159	Reamers—Belt	19
Holder—Chucking Reamer	48	Screw Drivers	
Index		Screw Drivers, All Steel	16
Index, Model Letter	170	Screw Drivers, Gun and Machine Makers'	18
Index, Numerical—of Machine Wrenches	171	Screw Drivers, Magazine	17
Index, General	180-182	Screw Drivers, Off-set	20
Inspection	162	Screws—Thumb	133-134
Kits		Sets	
Kits, Tool No. 10	106	Sets, Wrench No. 1, No. 2, No. 2½	100
Kits, Tool No. 11	107	Sets, Wrench No. 3, No. 4	101
Kits, Tool No. 12	108	Sets, Wrench No. 5	102
Knives		Sets, Wrench No. 6, No. 7	103
Knife, Combination—File and Nail Cleaner	54	Sets, Wrench No. 8, No. 8½	104
Knife, Magazine and Screw Driver	54	Sets, Wrench No. 9	105
Knife, Sportsman's	55	Sets, Wrench No. 13	109
Laboratory	163	Sets, Wrench No. 14	110
Lever or Crank Forgings	130	Sets, Wrench No. 15	111
Lists, Comparative of Machine Wrench Numbers	172-179	Sets, Wrench No. 16	112
Machining	160	Sets, Wrench No. 44	113
Nuts		Sets, Wrench—Allen Friction No. 9, No. 21, No. 31	34-35
Nuts, Eye	138	Sets, Wrench—Allen Friction Ford Special	34-35
Nuts, Thumb	135	Sets, Wrench—Eureka Ford Special	37
Pliers		Shifters—Belt	58
Pliers, Box Joint	15	Sleeves—Taper	31
Pliers, Combination	14	Sockets—Flat Drill	31
Pliers, Hayden	15	Tools	
Punches		Tools, Cotter Pin	20
Punches, Regular	20	Tools, Cutting Off	49
Punches, Center	20	Tools, Nurling	50
Quality	158	Vises	
Ratchets	22-30	Vises, Hand	51
Ratchets, Packer	22	Vises, Hand with Clamp	52
Ratchets, Taper Socket Packer	23	Vises, Hand with Clamp and Anvil Base	52
Ratchets, Packer Boiler	24	Vises, Lineman's Hand	51
Ratchets, Railroad Packer	25-26	Welding—Electric	161

GENERAL INDEX—Continued

Article	Page	Article	Page
Wrenches—Adjustable	5-13	Wrenches—Machine—continued	
Wrenches, Adjustable	33-36	Wrenches, Chuck	88
Wrenches, Adjustable Alligator	6-7	Wrenches, Construction	79
Wrenches, Adjustable Angle	13	Wrenches, Engineers'	62-65
Wrenches, Adjustable Automobile	12	Wrenches, Light Service	85-86
Wrenches, Adjustable Engineers'	10-11	Wrenches, Long Round Handle	80
Wrenches, Adjustable Pocket	8	Wrenches, Long Flat Handle	80
Wrenches, Adjustable "S" Nut	5	Wrenches, "S"	72-74
Wrenches, Adjustable "S" Pipe	9	Wrenches, Set Screw	75-76
Wrenches, Adjustable Spanner	9	Wrenches, Set Screw and Nut	78
Wrenches, B. & S. Allen Friction	8	Wrenches, Structural	79
Socket	33	Wrenches, Textile	77
Wrenches, B. & S. Allen Universal		Wrenches, Tool Post	82 and 84
Ratchet	36	Wrenches—Socket	
Wrenches, Eureka Ratchet	36	Wrenches, Automobile Double	
Wrenches—Adjustable Tap and		Opening Socket	89
Reamer	53	Wrenches, Bit Brace Socket	98-99
Wrenches—Machine	59-99	Wrenches, Offset Handle Socket	94-97
Wrenches, Box	83	Wrenches, "T" Handle Socket	90-93
Wrenches, Cap Screw	66-69	Wrenches—Spanner	88
Wrenches, Car	81	Wrenches, Face Spanner	87
Wrenches, Check Nut	70-71	Wrenches—Spark Plug	89



